

FORM PTO-1449/A and B (modified PTO/SB/08)

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Sheet	1	of	20
-------	---	----	----

APPLICATION NO.: 10/690,495	ATTY. DOCKET NO.: C1039.70083US00
FILING DATE: October 21, 2003	CONFIRMATION NO.: 8657
APPLICANT: Krieg et al.	
GROUP ART UNIT: 1645	EXAMINER: Nina Archie

U.S. PATENT DOCUMENTS

Examiner's Initials ^a	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
/NA/		4,452,775		Kent	06-05-1984
		4,981,684		MacKenzie et al.	01-01-1991
		5,075,109		Tice et al.	12-24-1991
		5,178,860		MacKenzie et al.	01-12-1993
		5,543,152		Webb et al.	08-06-1996
		5,595,756		Bally et al.	01-21-1997
		5,679,354		Morein et al.	10-21-1997
		5,705,385		Bally et al.	01-06-1998
		5,736,152		Dunn	04-07-1998
		5,753,613		Ansell et al.	05-19-1998
		5,766,920		Babbitt et al.	06-16-1998
		5,785,992		Ansell et al.	07-28-1998
		5,814,335		Webb et al.	09-29-1998
		5,965,542		Wasan et al.	10-12-1999
		5,968,909		Agrawal et al.	10-19-1999
		5,976,567		Wheeler et al.	11-02-1999
		5,981,501		Wheeler et al.	11-09-1999
		6,027,726		Ansell	02-22-2000
		6,027,732		Morein et al.	02-22-2000
		6,030,955		Stein et al.	02-29-2000
		6,090,791		Sato et al.	07-18-2000
		6,110,745		Zhang et al.	08-29-2000
		6,121,434		Peyman et al.	09-19-2000
		6,207,819	B1	Manoharan et al.	03-27-2001
		6,348,312		Peyman et al.	02-19-2002
		6,476,000	B1	Agrawal et al.	11-05-2002
		6,544,518	B1	Friede et al.	04-08-2003
		6,558,670	B1	Friede et al.	05-06-2003
		6,605,708		Habus et al.	08-12-2003
		6,610,308		Haensler	08-26-2003
		6,610,661	B1	Carson et al.	08-26-2003
		6,630,455	B1	Mitchell	10-07-2003

EXAMINER:	DATE CONSIDERED:
/Nina Archie/	03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 2 of 20

APPLICATION NO.: 10/690,495	ATTY. DOCKET NO.: C1039.70083US00
FILING DATE: October 21, 2003	CONFIRMATION NO.: 8657
APPLICANT: Krieg et al.	
GROUP ART UNIT: 1645	EXAMINER: Nina Archie

/NA/		6,815,429	B2	Agrawal	11-09-2004
		6,849,725	B2	Junghans et al.	02-01-2005
		7,001,890		Wagner et al.	02-26-2006
		7,105,495	B2	Agrawal et al.	09-12-2006
		7,129,222	B2	Van Nest et al.	10-31-2006
		2001-0036462	A1	Fong et al.	11-01-2001
		2002-0009457	A1	Bowersock et al.	01-24-2002
		2002-0055477	A1	Van Nest et al.	05-09-2002
		2002-0065236	A1	Yew et al.	05-30-2002
		2002-0137714	A1	Kandamilla et al.	09-26-2002
		2002-0192184	A1	Carpentier et al.	12-19-2002
		2003-0022852	A1	Van Nest et al.	01-30-2003
		2003-0059773	A1	Van Nest et al.	03-27-2003
		2003-0086900	A1	Low et al.	05-08-2003
		2003-0104044	A1	Semple et al.	06-05-2003
		2003-0109469	A1	Carson et al.	06-12-2003
		2003-0119774	A1	Foldvari et al.	06-26-2003
		2003-0125279	A1	Junghans et al.	07-03-2003
		2003-0129251	A1	Van Nest et al.	07-10-2003
		2003-0165478	A1	Sokoll et al.	09-04-2003
		2003-0186921	A1	Carson et al.	10-02-2003
		2003-0203861	A1	Carson et al.	10-30-2003
		2003-0232780	A1	Carson et al.	12-18-2003
		2004-0006010	A1	Carson et al.	01-08-2004
		2004-0006034	A1	Raz et al.	01-08-2004
		2004-0013688	A1	Wise et al.	01-22-2004
		2004-0047869	A1	Garcon et al.	03-11-2004
		2004-0058883	A1	Phillips et al.	03-25-2004
		2004-0092468	A1	Schwartz et al.	05-13-2004
		2004-0097719	A1	Agrawal et al.	05-20-2004
		2004-0132677	A1	Fearon et al.	07-08-2004
		2004-0136948	A1	Fearon et al.	07-15-2004
		2004-0248837	A1	Raz et al.	12-09-2004
		2005-0004144	A1	Carson et al.	01-06-2005
		2005-0031638	A1	Dalemans et al.	02-10-2005
		2005-0064401	A1	Olek et al.	03-24-2005

EXAMINER:

/Nina Archie/

DATE CONSIDERED:

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449/A and B (modified PTO/SB/08) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 10/690,495		ATTY. DOCKET NO.: C1039.70083US00	
				FILING DATE: October 21, 2003		CONFIRMATION NO.: 8657	
				APPLICANT: Krieg et al.			
				GROUP ART UNIT: 1645		EXAMINER: Nina Archie	
Sheet	3	of	20				

/NA/		2005-0079152	A1	Bot et al.	04-14-2005
		2005-0130918	A1	Agrawal et al.	06-16-2005
		2005-0176672	A1	Scheule et al.	08-11-2005
		2005-0181035	A1	Dow et al.	08-18-2005
		2005-0191342	A1	Tam et al.	09-01-2005
		2005-0209184	A1	Klinman et al.	09-22-2005
		2005-0214355		Klinman et al.	09-29-2005
		2005-0249794	A1	Semple et al.	11-10-2005
		2005-0266015	A1	Clerici et al.	12-01-2005
		2005-0277604	A1	Krieg et al.	12-15-2005
		2005-0277609	A1	Krieg et al.	12-15-2005
		2006-0003955	A1	Krieg et al.	01-05-2006
		2006-0003962	A1	Ahluwalia et al.	01-05-2006
		2006-0014713	A1	Agrawal et al.	01-19-2006
		2006-0019909	A1	Agrawal et al.	01-26-2006
		2006-0019916	A1	Krieg et al.	01-26-2006
		2006-0019923	A1	Davis et al.	01-26-2006
		2006-0058251	A1	Krieg et al.	03-16-2006
		2006-0074040	A1	Kandimalla et al.	04-06-2006
		2006-0089326	A1	Krieg et al.	04-27-2006
		2006-0094683	A1	Krieg et al.	05-04-2006
		2006-0140875	A1	Krieg et al.	06-29-2006
		2006-0154890	A1	Bratzler et al.	07-13-2006
		2006-0172966	A1	Lipford et al.	08-03-2006
		2006-0188913	A1	Krieg et al.	08-24-2006
		2006-0189550	A1	Jiang et al.	08-24-2006
		2006-0211639	A1	Bratzler et al.	09-21-2006
		2006-0211641	A1	Agrawal et al.	09-21-2006
		2006-0211644	A1	Krieg et al.	09-21-2006
		2006-0223769	A1	Dow et al.	10-05-2006
		2006-0229271	A1	Krieg et al.	10-12-2006
		2006-0241076	A1	Uhlmann et al.	10-26-2006
		2006-0246035	A1	Ahluwalia et al.	11-02-2006
		2006-0251623	A1	Bachmann et al.	11-09-2006
		2006-0251677	A1	Bachmann et al.	11-09-2006
		2006-0286070	A1	Hartmann et al.	12-21-2006

EXAMINER:	DATE CONSIDERED:
/Nina Archie/	03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

APPLICATION NO.: 10/690,495

ATTY. DOCKET NO.: C1039.70083US00

FILING DATE: October 21, 2003

CONFIRMATION NO.: 8657

APPLICANT: Krieg et al.

GROUP ART UNIT: 1645

EXAMINER: Nina Archie

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet 4 of 20

FOREIGN PATENT DOCUMENTS

Examiner's Initials #	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
/NA/		EP	0 092 574	A1	Molecular Biosystems, Inc.	04-28-1983	
		EP	1 393 745	A1	Hybridon, Inc.	03-03-2004	
		WO	90/14822	A1	Northwestern University	12-13-1990	
		WO	95/24929	A2	Brown University Research Foundation	09-21-1995	
		WO	96/40162	A1	East Carolina University	12-19-1996	
		WO	97/03702	A1	Brown University Research Foundation	02-06-1997	
		WO	97/30731	A3	The Immune Response Corporation	08-28-1997	
		WO	98/11211	A2	Hybridon et al.	03-19-1998	
		WO	98/29557	A1	Biovector Therapeutics	07-09-1998	Y-Abstract
		WO	98/49288	A1	Hybridon Inc.	11-05-1998	
		WO	98/51278	A2	INEX Pharmaceuticals Corp.	11-19-1998	
		WO	98/52962	A1	Merck and Co., Inc.	11-26-1998	
		WO	98/55495	A2	Dynavax Technologies Corporation	12-10-1998	
		WO	99/30686	A1	INEX Pharmaceuticals Corporation	06-24-1999	
		WO	99/33493	A1	INEX Pharmaceuticals Corporation	07-08-1999	
		WO	99/43350	A1	IOMAI Corporation	09-02-1999	
		WO	99/52549	A1	SmithKline Beecham Biologicals S.A.	10-29-1999	
		WO	99/55743	A1	INEX Pharmaceuticals Corporation	11-04-1999	
		WO	99/58118	A2	CPG Immunopharmaceuticals GMBH	11-18-1999	
		WO	99/61056	A3	Loeb Health Research Institute at the Ottawa Hospital	12-02-1999	
		WO	00/03683	A2	INEX Pharmaceuticals Corporation	01-27-2000	
		WO	00/15256	A2	Pasteur Merieux Serums Et Vaccins [FR]	03-23-2000	Y-Abstract
		WO	00/45849	A2	Genzyme Corporation	08-10-2000	
		WO	00/46365	A1	Virginia Commonwealth University	08-10-2000	
		WO	00/54803	A2	Panacea Pharmaceuticals, LLC.	09-21-2000	
		WO	00/61151	A2	The Government of the United States of America	10-19-2000	
		WO	00/67787	A2	The Immune Response Corporation	11-16-2000	
		WO	00/75304	A1	Aventis Pasteur [FR]	12-14-2000	Y-Abstract
		WO	01/22972	A2	Coley Pharmaceuticals, GmbH	04-05-2001	
		WO	01/35991	A2	Dynavax Technologies Corporation	05-25-2001	

EXAMINER:

/Nina Archie/

DATE CONSIDERED:

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.
 Include copy of this form with next communication to Applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

APPLICATION NO.: 10/690,495	ATTY. DOCKET NO.: C1039.70083US00
FILING DATE: October 21, 2003	CONFIRMATION NO.: 8657
APPLICANT: Krieg et al.	
GROUP ART UNIT: 1645	EXAMINER: Nina Archie

Sheet 5 of 20

/NA/		WO	01/45750	A1	Regents of the University of California	06-28-2001	
		WO	01/68143	A2	Dynavax Technologies Corporation	09-20-2001	
		WO	01/68144	A2	Dynavax Technologies Corporation	09-20-2001	
		WO	01/83503	A2	Hybridon, Inc	11-08-2001	
		WO	01/85751	A1	Reliable Pharmaceutical, Inc.	11-15-2001	
		WO	01/93902	A2	Biosynexus Incorporated	12-13-2001	
		WO	02/26757	A2	Hybridon, Inc.	04-04-2002	
		WO	02/28428	A2	Aventis Pasteur [FR]	04-11-2002	Y-Abstract
		WO	02/036767	A3	INEX Pharmaceuticals Corporation	05-10-2002	
		WO	03/000232	A2	Dynavax Technologies Corporation	01-03-2003	
		WO	03/002065	A2	Chiron Corporation	01-09-2003	
		WO	03/024481	A2	Cytos Biotechnology AG	03-27-2003	
		WO	03/026688	A1	Pharmaderm Laboratories, Ltd.	04-03-2003	
		WO	03/035836	A2	Hybridon, Inc.	05-01-2003	
		WO	03/057822	A3	Hybridon, Inc.	07-17-2003	
		WO	03/066649	A1	Biomira Inc.	08-14-2003	
		WO	03/094963	A2	INEX Pharmaceuticals Corp.	11-20-2003	
		WO	2004/041183	A2	The Regents of the University of California	05-21-2004	
		WO	2004/058159	A2	Dynavax Technologies Corp.	07-15-2004	
		WO	2005/001055	A2	Hybridon Inc.	01-06-2005	
		WO	2005/004907	A1	Cytos Biotechnology AG	01-20-2005	
		WO	2005/004910	A2	Intercell Ag	01-20-2005	
		WO	2005/023289	A1	Intellectual Property Consulting Incorporated	03-17-2005	Y-Abstract
		WO	2006/002038	A2	Hybridon, Inc.	01-05-2006	
		WO	2006/012896	A1	Universitaetsklinikum Schleswig-Holstein	02-09-2006	Y-Abstract
		WO	2006/015872	A1	Mologen Ag	02-16-2006	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
V		Press Release, Hybridon, Inc. Hybridon shows immunomodulatory activity of synthetic oligonucleotides. Cambridge, MA. May 7, 2001.	

EXAMINER: /Nina Archie/	DATE CONSIDERED: 03/10/2007
-------------------------	-----------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICATION NO.: 10/690,495	ATTY. DOCKET NO.: C1039.70083US00
		FILING DATE: October 21, 2003	CONFIRMATION NO.: 8657
		APPLICANT: Krieg et al.	
		GROUP ART UNIT: 1645	EXAMINER: Nina Archie
Sheet	6	of	20

/NA/		AGRAWAL et al., Novel immunomodulatory oligonucleotides prevent development of allergic airway inflammation and airway hyperresponsiveness in asthma. Int Immunopharmacol. 2004 Jan;4(1):127-38.	
		AGRAWAL et al., Pharmacokinetics, biodistribution, and stability of oligodeoxynucleotide phosphorothioates in mice. Proc Natl Acad Sci U S A. 1991 Sep 1;88(17):7595-9.	
		AGRAWAL et al., Medicinal chemistry and therapeutic potential of CpG DNA. Trends Mol Med. 2002 Mar;8(3):114-21.	
		AGRAWAL et al., Pharmacokinetics of antisense oligonucleotides. Clin Pharmacokinet. 1995 Jan;28(1):7-16.	
		ALPAR et al., Potential of particulate carriers for the mucosal delivery of DNA vaccines. Biochem Soc Trans. 1997 May;25(2):337S.	
		ANITESCU et al., Interleukin-10 functions in vitro and in vivo to inhibit bacterial DNA-induced secretion of interleukin-12. J Interferon Cytokine Res. 1997 Dec;17(12):781-8.	
		ASKEW et al., CpG DNA induces maturation of dendritic cells with distinct effects on nascent and recycling MHC-II antigen-processing mechanisms. J Immunol. 2000 Dec 15;165(12):6889-95.	
		BALLAS et al., Induction of NK activity in murine and human cells by CpG motifs in oligodeoxynucleotides and bacterial DNA. J Immunol. 1996 Sep 1;157(5):1840-5.	
		BARAL et al., Immunostimulatory CpG oligonucleotides enhance the immune response of anti-idiotypic vaccine that mimics carcinoembryonic antigen. Cancer Immunol Immunother. 2003 May;52(5):317-27.	
		BAUER et al., DNA activates human immune cells through a CpG sequence-dependent manner. Immunology. 1999 Aug;97(4):699-705.	
		BAUER et al., Human TLR9 confers responsiveness to bacterial DNA via species-specific CpG motif recognition. Proc Natl Acad Sci U S A. 2001 Jul 31;98(16):9237-42.	
		BIANCO et al., Cationic carbon nanotubes bind to CpG oligodeoxynucleotides and enhance their immunostimulatory properties. J Am Chem Soc. 2005 Jan 12;127(1):58-9.	
		BLAZAR et al., Synthetic unmethylated cytosine-phosphate-guanosine oligodeoxynucleotides are potent stimulators of antileukemia responses in naive and bone marrow transplant recipients. Blood. 2001 Aug 15;98(4):1217-25.	
		BOGGS et al., Characterization and modulation of immune stimulation by modified oligonucleotides. Antisense Nucleic Acid Drug Dev. 1997 Oct;7(5):461-71.	
		BOWERSOCK et al., Evaluation of an orally administered vaccine, using hydrogels containing bacterial exotoxins of Pasteurella haemolytica, in cattle. Am J Vet Res. 1994 Apr;55(4):502-9.	
		BROIDE et al., DNA-Based immunization for asthma. Int Arch Allergy Immunol. 1999 Feb-Apr;118(2-4):453-6.	
		BRUNNER et al., Enhanced dendritic cell maturation by TNF-alpha or cytidine-phosphate-guanosine DNA drives T cell activation in vitro and therapeutic anti-tumor immune responses in vivo. J Immunol. 2000 Dec 1;165(11):6278-86.	
		CARPENTIER et al., Successful treatment of intracranial gliomas in rat by oligodeoxynucleotides containing CpG motifs. Clin Cancer Res. 2000 Jun;6(6):2469-73.	
✓		CHACE et al., Bacterial DNA-induced NK cell IFN-gamma production is dependent on macrophage secretion of IL-12. Clin Immunol Immunopathol. 1997 Aug;84(2):185-93.	

EXAMINER:	DATE CONSIDERED:
/Nina Archie/	03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449/A-and B (modified PTO/SB/08) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 10/690,495		ATTY. DOCKET NO.: C1039.70083US00	
				FILING DATE: October 21, 2003		CONFIRMATION NO.: 8657	
				APPLICANT: Krieg et al.			
				GROUP ART UNIT: 1645		EXAMINER: Nina Archie	
Sheet	7	of	20				

/NA/		CHAN et al., CpG-A and CpG-B oligodeoxynucleotides differentially affect the cytokine profile, chemokine receptor expression and T-cell priming function of human plasmacytoid dendritic cells. Blood. 2002;100:50b. Abstract #3666.	
		CHANG et al., The effect of CpG-oligodeoxynucleotides with different backbone structures and 3' hexameric deoxyriboguanosine run conjugation on the treatment of asthma in mice. J Allergy Clin Immunol. 2004;113(2):S323. Abstract 1196.	
		CHATURVEDI et al., Stabilization of triple-stranded oligonucleotide complexes: use of probes containing alternating phosphodiester and stereo-uniform cationic phosphoramidate linkages. Nucleic Acids Res. 1996 Jun 15;24(12):2318-23.	
		CHEN et al., Protective immunity induced by oral immunization with a rotavirus DNA vaccine encapsulated in microparticles. J Virol. 1998 Jul;72(7):5757-61.	
		CHOI et al., The level of protection against rotavirus shedding in mice following immunization with a chimeric VP6 protein is dependent on the route and the coadministered adjuvant. Vaccine. 2002 Mar 15;20(13-14):1733-40.	
		COHEN, Selective anti-gene therapy for cancer: principles and prospects. Tohoku J Exp Med. 1992 Oct;168(2):351-9.	
		COOPER et al., Safety and immunogenicity of CPG 7909 injection as an adjuvant to Fluarix influenza vaccine. Vaccine. 2004 Aug 13;22(23-24):3136-43.	
		COWDERY et al., Bacterial DNA induces NK cells to produce IFN-gamma in vivo and increases the toxicity of lipopolysaccharides. J Immunol. 1996 Jun 15;156(12):4570-5.	
		CROOKE et al., Phosphorothioate Oligonucleotides. Therapeut Apps. 1995;ch5:63-84.	
		CRYZ et al., European Commission COST/STD Initiative. Report of the expert panel VII. Vaccine delivery systems. Vaccine. 1996 May;14(7):665-90.	
		DAFTARIAN et al., Two distinct pathways of immuno-modulation improve potency of p53 immunization in rejecting established tumors. Cancer Res. 2004 Aug 1;64(15):5407-14.	
		DAHESHIA et al., Immune induction and modulation by topical ocular administration of plasmid DNA encoding antigens and cytokines. Vaccine. 1998 Jul;16(11-12):1103-10.	
		DALPKE et al., CpG-DNA as immune response modifier. Int J Med Microbiol. 2004 Oct;294(5):345-54.	
		DASS et al., Immunostimulatory activity of cationic-lipid-nucleic-acid complexes against cancer. J Cancer Res Clin Oncol. 2002 Apr;128(4):177-81. Abstract Only.	
		DAVILA et al., Generation of antitumor immunity by cytotoxic T lymphocyte epitope peptide vaccination, CpG-oligodeoxynucleotide adjuvant, and CTLA-4 blockade. Cancer Res. 2003 Jun 15;63(12):3281-8.	
		DAVIS, Use of CpG DNA for enhancing specific immune responses. Curr Top Microbiol Immunol. 2000;247:171-83.	
		DAVIS et al., CpG ODN is safe and highly effective in humans as adjuvant to HBV vaccine: Preliminary results of Phase I trial with CpG ODN 7909. Third Annual Conference on Vaccine Res. 2000. Abstract s25, number 47.	
		DELONG et al., Characterization of complexes of oligonucleotides with polyamidoamine starburst dendrimers and effects on intracellular delivery. J Pharm Sci. 1997 Jun;86(6):762-4. Abstract Only.	
✓		ELDRIDGE et al., Biodegradable microspheres as a vaccine delivery system. Mol Immunol. 1991 Mar;28(3):287-94. Abstract Only.	

EXAMINER:	DATE CONSIDERED:
/Nina Archie/	03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

APPLICATION NO.: 10/690,495

ATTY. DOCKET NO.: C1039.70083US00

FILING DATE: October 21, 2003

CONFIRMATION NO.: 8657

APPLICANT: Krieg et al.

GROUP ART UNIT: 1645

EXAMINER: Nina Archie

Sheet 8 of 20

/NA/	EMI et al., Gene transfer mediated by polyarginine requires a formation of big carrier-complex of DNA aggregate. Biochem Biophys Res Commun. 1997 Feb 13;231(2):421-4.	
	FILION et al., Major limitations in the use of cationic liposomes for DNA delivery. Int J Pharmaceut. 1998; 162:159-70.	
	FRALEY et al., New generation liposomes: the engineering of an efficient vehicle for intracellular delivery of nucleic acids. Trends Biochem Sci. 1981;6:77-80.	
	GALLICHAN et al., Specific secretory immune responses in the female genital tract following intranasal immunization with a recombinant adenovirus expressing glycoprotein B of herpes simplex virus. Vaccine. 1995 Nov;13(16):1589-95.	
	GALLICHAN et al., Intranasal immunization with CpG oligodeoxynucleotides as an adjuvant dramatically increases IgA and protection against herpes simplex virus-2 in the genital tract. J Immunol. 2001 Mar 1;166(5):3451-7.	
	GAO et al., Bacterial DNA and lipopolysaccharide induce synergistic production of TNF-alpha through a post-transcriptional mechanism. J Immunol. 2001 Jun 1;166(11):6855-60.	
	GARBI et al., CpG motifs as proinflammatory factors render autochthonous tumors permissive for infiltration and destruction. J Immunol. 2004 May 15;172(10):5861-9.	
	GAREGG et al., Nucleoside H-phosphonates. IV. Automated solid phase synthesis of oligoribonucleotides by the hydrogenphosphonate approach. Tetrahedron Lett. 1986; 27(34):4055-8.	
	GASTON et al., CpG methylation has differential effects on the binding of YY1 and ETS proteins to the bi-directional promoter of the Surf-1 and Surf-2 genes. Nucleic Acids Res. 1995 Mar 25;23(6):901-9.	
	GOODMAN et al., Selective modulation of elements of the immune system by low molecular weight nucleosides. J Pharmacol Exp Ther. 1995 Sep;274(3):1552-7.	
	GOUTTEFANGEAS et al., Problem solving for tumor immunotherapy. Nat Biotechnol. 2000 May;18(5):491-2.	
	GREGORIADIS et al., Liposomes for drugs and vaccines. Trends Biotechnol. 1985;3:235-41.	
	GREGORIADIS et al., Engineering liposomes for drug delivery: progress and problems. Trends Biotechnol. 1995 Dec;13(12):527-37.	
	GROSSMANN et al., Avoiding tolerance against prostatic antigens with subdominant peptide epitopes. J Immunother. 2001 May-Jun;24(3):237-41.	
	GURSEL et al., Differential and competitive activation of human immune cells by distinct classes of CpG oligodeoxynucleotide. J Leukoc Biol. 2002 May;71(5):813-20. Abstract Only.	
	HADDEN et al., Immunostimulants. Trends Pharmacol Sci. 1993 May;14(5):169-74.	
	HAFNER et al., Antimetastatic effect of CpG DNA mediated by type I IFN. Cancer Res. 2001 Jul 15;61(14):5523-8.	
	HAHM et al., Efficacy of polyadenylic polyuridylic acid in the treatment of chronic active hepatitis B. Int J Immunopharmacol. 1994 Mar;16(3):217-25.	
	HALPERN et al., Bacterial DNA induces murine interferon-gamma production by stimulation of interleukin-12 and tumor necrosis factor-alpha. Cell Immunol. 1996 Jan 10;167(1):72-8.	
↓	HANEBERG et al., Induction of specific immunoglobulin A in the small intestine, colon-rectum, and vagina measured by a new method for collection of secretions from local mucosal surfaces. Infect Immun. 1994 Jan;62(1):15-23.	

EXAMINER:

/Nina Archie/

DATE CONSIDERED:

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICATION NO.: 10/690,495	ATTY. DOCKET NO.: C1039.70083US00
		FILING DATE: October 21, 2003	CONFIRMATION NO.: 8657
		APPLICANT: Krieg et al.	
		GROUP ART UNIT: 1645	EXAMINER: Nina Archie
Sheet	9	of	20

/NA/		HARRINGTON et al., Adjuvant effects of low doses of a nuclease-resistant derivative of polyinosinic acid . polycytidylic acid on antibody responses of monkeys to inactivated Venezuelan equine encephalomyelitis virus vaccine. Infect Immun. 1979 Apr;24(1):160-6.	
		HARTMANN et al., CpG DNA and LPS induce distinct patterns of activation in human monocytes. Gene Ther. 1999 May;6(5):893-903.	
		HARTMANN et al., Mechanism and function of a newly identified CpG DNA motif in human primary B cells. J Immunol. 2000 Jan 15;164(2):944-53.	
		HARTMANN et al., Spontaneous and cationic lipid-mediated uptake of antisense oligonucleotides in human monocytes and lymphocytes. J Pharmacol Exp Ther. 1998 May;285(2):920-8.	
		HARTMANN et al., Delineation of a CpG phosphorothioate oligodeoxynucleotide for activating primate immune responses in vitro and in vivo. J Immunol. 2000 Feb 1;164(3):1617-24.	
		HARTMANN et al., CpG DNA: a potent signal for growth, activation, and maturation of human dendritic cells. Proc Natl Acad Sci U S A. 1999 Aug 3;96(16):9305-10.	
		HAYNES et al., Particle-mediated nucleic acid immunization. J Biotechnol. 1996 Jan 26;44(1-3):37-42.	
		HECKELSMILLER et al., Peritumoral CpG DNA elicits a coordinated response of CD8 T cells and innate effectors to cure established tumors in a murine colon carcinoma model. J Immunol. 2002 Oct 1;169(7):3892-9.	
		HEEG et al., CpG DNA as a Th1 trigger. Int Arch Allergy Immunol. 2000 Feb;121(2):87-97.	
		HENRY et al., Chemically modified oligonucleotides exhibit decreased immune stimulation in mice. J Pharmacol Exp Ther. 2000 Feb;292(2):468-79.	
		HOPKIN et al., Curbing the CpGs of Bacterial and Viral DNA. BioMedNet. 1999 Jun25; Issue 57.	
		HUANG et al., Induction and regulation of Th1-inducing cytokines by bacterial DNA, lipopolysaccharide, and heat-inactivated bacteria. Infect Immun. 1999 Dec;67(12):6257-63.	
		HUDSON et al., Nucleic acid dendrimers: Novel biopolymer structures. J Am Chem Soc. 1993;115:2119-24.	
		HUNTER et al., Biodegradable microspheres containing group B Streptococcus vaccine: immune response in mice. Am J Obstet Gynecol. 2001 Nov;185(5):1174-9.	
		IHO et al., Oligodeoxynucleotides containing palindrome sequences with internal 5'-CpG-3' act directly on human NK and activated T cells to induce IFN-gamma production in vitro. J Immunol. 1999 Oct 1;163(7):3642-52.	
		IOANNOU et al., The immunogenicity and protective efficacy of bovine herpesvirus 1 glycoprotein D plus Emulsigen are increased by formulation with CpG oligodeoxynucleotides. J Virol. 2002 Sep;76(18):9002-10.	
		IVERSEN et al., In vivo studies with phosphorothioate oligonucleotides: pharmacokinetics prologue. Anticancer Drug Des. 1991 Dec;6(6):531-8.	
		JAKOB et al., Activation of cutaneous dendritic cells by CpG-containing oligodeoxynucleotides: a role for dendritic cells in the augmentation of Th1 responses by immunostimulatory DNA. J Immunol. 1998 Sep 15;161(6):3042-9.	
↓		JAKOB et al., Bacterial DNA and CpG-containing oligodeoxynucleotides activate cutaneous dendritic cells and induce IL-12 production: implications for the augmentation of Th1 responses. Int Arch Allergy Immunol. 1999 Feb-Apr;118(2-4):457-61.	

EXAMINER:

/Nina Archie/

DATE CONSIDERED:

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

INFORMATION DISCLOSURE STATEMENT BY APPLICANT			APPLICATION NO.: 10/690,495	ATTY. DOCKET NO.: C1039.70083US00	
			FILING DATE: October 21, 2003	CONFIRMATION NO.: 8657	
			APPLICANT: Krieg et al.		
			GROUP ART UNIT: 1645	EXAMINER: Nina Archie	
Sheet	10	of	20		

/NA/		JASCHKE et al., Automated incorporation of polyethylene glycol into synthetic oligonucleotides. Tetrahedron Lett. 1993;34(2):301-4.	
		JIANG et al., Enhancing immunogenicity by CpG DNA. Curr Opin Mol Ther. 2003 Apr;5(2):180-5.	
		JIAO et al., Enhanced hepatitis C virus NS3 specific Th1 immune responses induced by co-delivery of protein antigen and CpG with cationic liposomes. J Gen Virol. 2004 Jun;85(Pt 6):1545-53.	
		JUFFERMANS et al., CpG oligodeoxynucleotides enhance host defense during murine tuberculosis. Infect Immun. 2002 Jan;70(1):147-52.	
		KANDIMALLA et al., A dinucleotide motif in oligonucleotides shows potent immunomodulatory activity and overrides species-specific recognition observed with CpG motif. Proc Natl Acad Sci U S A. 2003 Nov 25;100(24):14303-8. Epub 2003 Nov 10.	
		KANDIMALLA et al., Effect of chemical modifications of cytosine and guanine in a CpG-motif of oligonucleotides: structure-immunostimulatory activity relationships. Bioorg Med Chem. 2001 Mar;9(3):807-13.	
		KANDIMALLA et al., Towards optimal design of second-generation immunomodulatory oligonucleotides. Curr Opin Mol Ther. 2002 Apr;4(2):122-9.	
		KANDIMALLA et al., Divergent synthetic nucleotide motif recognition pattern: design and development of potent immunomodulatory oligodeoxyribonucleotide agents with distinct cytokine induction profiles. Nucleic Acids Res. 2003 May 1;31(9):2393-400.	
		KATAOKA et al., Immunotherapeutic potential in guinea-pig tumor model of deoxyribonucleic acid from Mycobacterium bovis BCG complexed with poly-L-lysine and carboxymethylcellulose. Jpn J Med Sci Biol. 1990 Oct;43(5):171-82.	
		KLINMAN et al., Immunotherapeutic applications of CpG-containing oligodeoxynucleotides. Drug News Perspect. 2000 Jun;13(5):289-96.	
		KLINMAN et al., Immunotherapeutic uses of CpG oligodeoxynucleotides. Nat Rev Immunol. 2004 Apr;4(4):249-58.	
		KLINMAN et al., Immune recognition of foreign DNA: a cure for bioterrorism? Immunity. 1999 Aug;11(2):123-9.	
		KLINMAN et al., Contribution of CpG motifs to the immunogenicity of DNA vaccines. J Immunol. 1997 Apr 15;158(8):3635-9.	
		KLINMAN et al., CpG motifs present in bacteria DNA rapidly induce lymphocytes to secrete interleukin 6, interleukin 12, and interferon gamma. Proc Natl Acad Sci U S A. 1996 Apr 2;93(7):2879-83.	
		KOVARIK et al., CpG oligodeoxynucleotides can circumvent the Th2 polarization of neonatal responses to vaccines but may fail to fully redirect Th2 responses established by neonatal priming. J Immunol. 1999 Feb 1;162(3):1611-7.	
		KRANZER et al. CpG-oligodeoxynucleotides enhance T-cell receptor-triggered interferon-gamma production and up-regulation of CD69 via induction of antigen-presenting cell-derived interferon type I and interleukin-12. Immunology. 2000 Feb;99(2):170-8.	
		KRIEG et al., Immune effects and therapeutic applications of CpG motifs in bacterial DNA. Immunopharmacology. 2000 Jul 25;48(3):303-5.	
↓		KRIEG et al., Lymphocyte activation mediated by oligodeoxynucleotides or DNA containing novel unmethylated CpG motifs. American College of Rheumatology 58 th National Scientific Meeting. Minneapolis, Minnesota, October 22, 1994. Abstracts. Arthritis Rheum. 1994 Sep;37(9 Suppl).	

EXAMINER:

/Nina Archie/

DATE CONSIDERED:

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

INFORMATION DISCLOSURE STATEMENT BY APPLICANT			APPLICATION NO.: 10/690,495	ATTY. DOCKET NO.: C1039.70083US00	
			FILING DATE: October 21, 2003	CONFIRMATION NO.: 8657	
			APPLICANT: Krieg et al.		
			GROUP ART UNIT: 1645	EXAMINER: Nina Archie	
Sheet	11	of	20		

/NA/		KRIEG et al., Phosphorothioate oligodeoxynucleotides: antisense or anti-protein? Antisense Res Dev. 1995 Winter;5(4):241.	
		KRIEG et al., Leukocyte stimulation by oligodeoxynucleotides, Applied Antisense Oligonucleotide Technology, 1998; 431-448.	
		KRIEG, CpG DNA: a pathogenic factor in systemic lupus erythematosus? J Clin Immunol. 1995 Nov;15(6):284-92.	
		KRIEG et al., Modification of antisense phosphodiester oligodeoxynucleotides by a 5' cholesteryl moiety increases cellular association and improves efficacy. Proc Natl Acad Sci U S A. 1993 Feb 1;90(3):1048-52.	
		KRIEG et al., The role of CpG dinucleotides in DNA vaccines. Trends Microbiol. 1998 Jan;6(1):23-7.	
		KRIEG, An innate immune defense mechanism based on the recognition of CpG motifs in microbial DNA. J Lab Clin Med. 1996 Aug;128(2):128-33.	
		KRIEG et al., Applications of immune stimulatory CpG DNA for antigen-specific and antigen-nonspecific cancer immunotherapy. Eur J Canc. 1999 Oct; 35/Suppl4:S10. Abstract #14.	
		KRIEG et al., CpG motifs in bacterial DNA and their immune effects. Annu Rev Immunol. 2002;20:709-60.	
		KRIEG et al., Causing a commotion in the blood: immunotherapy progresses from bacteria to bacterial DNA. Immunol Today. 2000 Oct;21(10):521-6.	
		KRIEG et al., Chapter 8: Immune Stimulation by Oligonucleotides. in Antisense Research and Application. Crooke, editor. 1998; 243-62.	
		KRIEG et al., P-chirality-dependent immune activation by phosphorothioate CpG oligodeoxynucleotides. Oligonucleotides. 2003;13(6):491-9.	
		KRIEG et al., Bacterial DNA or oligonucleotides containing CpG motifs protect mice from lethal L. monocytogenes challenge. 1996 Meeting on Molecular Approaches to the Control of Infectious Diseases. Cold Spring Harbor Laboratory, September 9-13, 1996: 116.	
		KRIEG et al., Enhancing vaccines with immune stimulatory CpG DNA. Curr Opin Mol Ther. 2001 Feb;3(1):15-24.	
		KRIEG et al., Chapter 7: CpG oligonucleotides as immune adjuvants. Ernst Schering Research Found Workshop 2001; 30:105-18.	
		KRIEG, Immune effects and mechanisms of action of CpG motifs. Vaccine. 2001 Nov 8;19(6):618-22.	
		KRIEG et al., Chapter 17: Immune stimulation by oligonucleotides. in Antisense Drug Tech. 2001;1394:471-515.	
		KRIEG et al., Mechanisms and applications of immune stimulatory CpG oligodeoxynucleotides. Biochim Biophys Acta. 1999 Dec 10;1489(1):107-16.	
		KRIEG et al., The CpG motif: Implications for clinical immunology. BioDrugs. 1998 Nov 1;10(5):341-6.	
		KRIEG, The role of CpG motifs in innate immunity. Curr Opin Immunol. 2000 Feb;12(1):35-43.	
		KRIEG et al., Mechanism of action of CpG DNA. Curr Top Microbiol Immunol. 2000;247:1-21.	
✓		KRIEG et al., Mechanisms and therapeutic applications of immune stimulatory CpG DNA. Pharmacol Ther. 1999 Nov;84(2):113-20.	

EXAMINER:

DATE CONSIDERED:

/Nina Archie/

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

INFORMATION DISCLOSURE STATEMENT BY APPLICANT			APPLICATION NO.: 10/690,495	ATTY. DOCKET NO.: C1039.70083US00	
			FILING DATE: October 21, 2003	CONFIRMATION NO.: 8657	
			APPLICANT: Krieg et al.		
			GROUP ART UNIT: 1645	EXAMINER: Nina Archie	
Sheet	12	of	20		

/NA/	KRIEG et al., Sequence motifs in adenoviral DNA block immune activation by stimulatory CpG motifs. Proc Natl Acad Sci U S A. 1998 Oct 13;95(21):12631-6.
	KRIEG et al., CpG DNA: a novel immunomodulator. Trends Microbiol. 1999 Feb;7(2):64-5.
	KRIEG, Signal transduction induced by immunostimulatory CpG DNA. Springer Semin Immunopathol. 2000;22(1-2):97-105.
	KRIEG et al., Infection. In McGraw Hill Book. 1996: 242-3.
	KRIEG et al., Lymphocyte activation by CpG dinucleotide motifs in prokaryotic DNA. Trends Microbiol. 1996 Feb;4(2):73-6.
	KRIEG, Therapeutic potential of Toll-like receptor 9 activation. Nat Rev Drug Discov. 2006 Jun;5(6):471-84.
	KRIEG et al., Induction of systemic TH1-like innate immunity in normal volunteers following subcutaneous but not intravenous administration of CPG 7909, a synthetic B-class CpG oligodeoxynucleotide TLR9 agonist. J Immunother. 2004 Nov-Dec;27(6):460-71.
	KUKOWSKA-LATALLO et al., Efficient transfer of genetic material into mammalian cells using Starburst polyamidoamine dendrimers. Proc Natl Acad Sci U S A. 1996 May 14;93(10):4897-902.
	KURAMOTO et al., Changes of host cell infiltration into Meth A fibrosarcoma tumor during the course of regression induced by injections of a BCG nucleic acid fraction. Int J Immunopharmacol. 1992 Jul;14(5):773-82.
	KURAMOTO et al., In situ infiltration of natural killer-like cells induced by intradermal injection of the nucleic acid fraction from BCG. Microbiol Immunol. 1989;33(11):929-40.
	LEE et al., Immuno-stimulatory effects of bacterial-derived plasmids depend on the nature of the antigen in intramuscular DNA inoculations. Immunology. 1998 Jul;94(3):285-9.
	LETSINGER et al., Cholesteryl-conjugated oligonucleotides: synthesis, properties, and activity as inhibitors of replication of human immunodeficiency virus in cell culture. Proc Natl Acad Sci U S A. 1989 Sep;86(17):6553-6.
	LETSINGER et al., Synthesis and properties of modified oligonucleotides. Nucleic Acids Symp Ser. 1991;(24):75-8.
	LIPFORD et al., CpG-containing synthetic oligonucleotides promote B and cytotoxic T cell responses to protein antigen: a new class of vaccine adjuvants. Eur J Immunol. 1997 Sep;27(9):2340-4.
	LIPFORD et al., Immunostimulatory DNA: sequence-dependent production of potentially harmful or useful cytokines. Eur J Immunol. 1997 Dec;27(12):3420-6.
	LIPFORD et al., Bacterial DNA as immune cell activator. Trends Microbiol. 1998 Dec;6(12):496-500.
	LIU et al., CpG ODN is an effective adjuvant in immunization with tumor antigen. J Invest Med. 1997 Sept;45(7):333A.
	LONSDORF et al., Intratumor CpG-oligodeoxynucleotide injection induces protective antitumor T cell immunity. J Immunol. 2003 Oct 15;171(8):3941-6.
	MACKELLAR et al., Synthesis and physical properties of anti-HIV antisense oligonucleotides bearing terminal lipophilic groups. Nucleic Acids Res. 1992 Jul 11;20(13):3411-7.
↓	MAGNUSSON et al., Importance of CpG dinucleotides in activation of natural IFN-alpha-producing cells by a lupus-related oligodeoxynucleotide. Scand J Immunol. 2001 Dec;54(6):543-50.

EXAMINER:

/Nina Archie/

DATE CONSIDERED:

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet	13	of	20
-------	----	----	----

APPLICATION NO.: 10/690,495	ATTY. DOCKET NO.: C1039.70083US00
FILING DATE: October 21, 2003	CONFIRMATION NO.: 8657
APPLICANT: Krieg et al.	
GROUP ART UNIT: 1645	EXAMINER: Nina Archie

/NA/	MALLOY et al., Induction of Th1 and Th2 CD4+ T cell responses by oral or parenteral immunization with ISCOMS. Eur J Immunol. 1995 Oct;25(10):2835-41.	
	MARTIN-OROZCO et al., Enhancement of antigen-presenting cell surface molecules involved in cognate interactions by immunostimulatory DNA sequences. Int Immunol. 1999 Jul;11(7):1111-8.	
	McCLUSKIE et al., CpG DNA is a potent enhancer of systemic and mucosal immune responses against hepatitis B surface antigen with intranasal administration to mice. J Immunol. 1998 Nov 1;161(9):4463-6.	
	McCLUSKIE et al., CpG DNA as mucosal adjuvant. Vaccine. 2000; 18:231-237.	
	McCLUSKIE et al., Oral, intrarectal and intranasal immunizations using CpG and non-CpG oligodeoxynucleotides as adjuvants. Vaccine. 2001 Oct 15;19(4-5):413-22.	
	McCLUSKIE et al., CpG DNA is an effective oral adjuvant to protein antigens in mice. Vaccine. 2001 Nov 22;19(7-8):950-7.	
	McCLUSKIE et al., Route and method of delivery of DNA vaccine influence immune responses in mice and non-human primates. Mol Med. 1999 May;5(5):287-300.	
	McCLUSKIE et al., The use of CpG DNA as a mucosal vaccine adjuvant. Curr Opin Investig Drugs. 2001 Jan;2(1):35-9.	
	McCLUSKIE et al., Intranasal immunization of mice with CpG DNA induces strong systemic and mucosal responses that are influenced by other mucosal adjuvants and antigen distribution. Mol Med. 2000 Oct;6(10):867-77.	
	McCLUSKIE et al., The role of CpG in DNA vaccines. Springer Semin Immunopathol. 2000;22(1-2):125-32.	
	McGHEE et al., The mucosal immune system: from fundamental concepts to vaccine development. Vaccine. 1992;10(2):75-88.	
	MICONNET et al., CpG are efficient adjuvants for specific CTL induction against tumor antigen-derived peptide. J Immunol. 2002 Feb 1;168(3):1212-8.	
	MILAS et al., CpG oligodeoxynucleotide enhances tumor response to radiation. Cancer Res. 2004 Aug 1;64(15):5074-7.	
	MOJCIK et al., Administration of a phosphorothioate oligonucleotide antisense to murine endogenous retroviral MCF env causes immune effects in vivo in a sequence-specific manner. Clin Immunol Immunopathol. 1993 May;67(2):130-6.	
	MUI et al., Immune stimulation by a CpG-containing oligodeoxynucleotide is enhanced when encapsulated and delivered in lipid particles. J Pharmacol Exp Ther. 2001 Sep;298(3):1185-92.	
	MUTWIRI et al., Strategies for enhancing the immunostimulatory effects of CpG oligodeoxynucleotides. J Control Release. 2004 May 31;97(1):1-17.	
	NIELSEN et al., Peptide nucleic acid (PNA). A DNA mimic with a peptide backbone. Bioconj Chem. 1994 Jan-Feb;5(1):3-7.	
	OKADA et al., Bone marrow-derived dendritic cells pulsed with a tumor-specific peptide elicit effective anti-tumor immunity against intracranial neoplasms. Int J Cancer. 1998 Oct 5;78(2):196-201.	
✓	PAL et al., Immunization with the Chlamydia trachomatis mouse pneumonitis major outer membrane protein by use of CpG oligodeoxynucleotides as an adjuvant induces a protective immune response against an intranasal chlamydial challenge. Infect Immun. 2002 Sep;70(9):4812-7.	

EXAMINER:	DATE CONSIDERED:
/Nina Archie/	03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

APPLICATION NO.: 10/690,495

ATTY. DOCKET NO.: C1039.70083US00

FILING DATE: October 21, 2003

CONFIRMATION NO.: 8657

APPLICANT: Krieg et al.

GROUP ART UNIT: 1645

EXAMINER: Nina Archie

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet

14

of

20

/NA/	PAVLICK et al., Novel therapeutic agents under investigation for malignant melanoma. Expert Opin Investig Drugs. 2003 Sep;12(9):1545-58.	
	PAYETTE et al., History of vaccines and positioning of current trends. Curr Drug Targets Infect Disord. 2001 Nov;1(3):241-7.	
	PISETSKY et al., The immunologic properties of DNA. J Immunol. 1996 Jan 15;156(2):421-3.	
	PISETSKY et al., Influence of backbone chemistry on immune activation by synthetic oligonucleotides. Biochem Pharmacol. 1999 Dec 15;58(12):1981-8.	
	PISETSKY, Immunologic consequences of nucleic acid therapy. Antisense Res Dev. 1995 Fall;5(3):219-25.	
	PISETSKY et al., Stimulation of in vitro proliferation of murine lymphocytes by synthetic oligodeoxynucleotides. Mol Biol Rep. 1993 Oct;18(3):217-21.	
	PISETSKY, The influence of base sequence on the immunostimulatory properties of DNA. Immunol Res. 1999;19(1):35-46.	
	PISETSKY et al., The influence of base sequence on the immunological properties of defined oligonucleotides. Immunopharmacology. 1998 Nov;40(3):199-208.	
	POLANCZYK et al., Immunostimulatory effects of DNA and CpG motifs. Cent Eur J of Immunol. 2000;25(3):160-6.	
	RAGHAVAN et al., Orally administered CpG oligodeoxynucleotide induces production of CXC and CC chemokines in the gastric mucosa and suppresses bacterial colonization in a mouse model of Helicobacter pylori infection. Infect Immun. 2003 Dec;71(12):7014-22.	
	RANKIN et al., CpG motif identification for veterinary and laboratory species demonstrates that sequence recognition is highly conserved. Antisense Nucleic Acid Drug Dev. 2001 Oct;11(5):333-40.	
	REDDY et al., Design of synthetic immunostimulatory motifs as agonists of Toll-like receptor 9: Use of N3-methyl-dC and N1-methyl-dG. 231 st ACS National Meeting. Atlanta, GA, United States. March 26-30, 2006. Meeting Abstract.	
	REITZ et al., Small-molecule immunostimulants. Synthesis and activity of 7,8-disubstituted guanosines and structurally related compounds. J Med Chem. 1994 Oct 14;37(21):3561-78.	
	REVAZ et al., The importance of mucosal immunity in defense against epithelial cancers. Curr Opin Immunol. 2005 Apr;17(2):175-9.	
	ROBERTSON et al., Crohn's trial shows the pros of antisense. Nat Biotechnol. 1997 Mar;15(3):209.	
	RODGERS et al., Effects of acute administration of O,S,S-trimethyl phosphorodithioate on the generation of cellular and humoral immune responses following in vitro stimulation. Toxicology. 1988 Oct;51(2-3):241-53.	
	ROMAN et al., Immunostimulatory DNA sequences function as T helper-1-promoting adjuvants. Nat Med. 1997 Aug;3(8):849-54.	
	ROTHENFUSSE et al., Recent advances in immunostimulatory CpG oligonucleotides. Curr Opin Mol Ther. 2003 Apr;5(2):98-106.	
	SAJIC et al., Parameters of CpG oligodeoxynucleotide-induced protection against intravaginal HSV-2 challenge. J Med Virol. 2003 Dec;71(4):561-8.	
✓	SANDS et al., Biodistribution and metabolism of internally 3H-labeled oligonucleotides. I. Comparison of a phosphodiester and a phosphorothioate. Mol Pharmacol. 1994 May;45(5):932-43.	

EXAMINER:

/Nina Archie/

DATE CONSIDERED:

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449/A and B (modified PTO/SB/08) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 10/690,495		ATTY. DOCKET NO.: C1039.70083US00	
				FILING DATE: October 21, 2003		CONFIRMATION NO.: 8657	
				APPLICANT: Krieg et al.			
				GROUP ART UNIT: 1645		EXAMINER: Nina Archie	
Sheet	15	of	20				

/NA/		SATOH et al., The study of mechanisms in CpG oligodeoxynucleotides-induced aggravation in murine allergic contact dermatitis to 2,4-dinitrofluorobenzene. Fukushima Igaku Zasshi. 2002;52(3):237-50. Abstract.	
		SCHMIDT et al., Cytokine and Ig-production by CG-containing sequences with phosphorodiester backbone and dumbbell-shape. Allergy. 2006 Jan;61(1):56-63.	
		SCHWARTZ et al., Bacterial DNA or oligonucleotides containing unmethylated CpG motifs can minimize lipopolysaccharide-induced inflammation in the lower respiratory tract through an IL-12-dependent pathway. J Immunol. 1999 Jul 1;163(1):224-31.	
		SESTER et al., Phosphorothioate backbone modification modulates macrophage activation by CpG DNA. J Immunol. 2000 Oct 15;165(8):4165-73.	
		SHCHEPINOV et al., Oligonucleotide dendrimers: From poly-labelled DNA probes to stable nano-structures. Glen Research Glen Report located at < http://www.glenresearch.com/glenreports/GR12-11.html > visited on March 3, 2006. 7 pages.	
		SHCHEPINOV et al., Oligonucleotide dendrimers: stable nano-structures. Nucleic Acids Res. 1999 Aug 1;27(15):3035-41.	
		SINGH et al., Cationic microparticles are an effective delivery system for immune stimulatory CpG DNA. Pharm Res. 2001 Oct;18(10):1476-9.	
		SJOLANDER et al., Kinetics, localization and isotype profile of antibody responses to immune stimulating complexes (iscorns) containing human influenza virus envelope glycoproteins. Scand J Immunol. 1996 Feb;43(2):164-72.	
		SONEHARA et al., Hexamer palindromic oligonucleotides with 5'-CG-3' motif(s) induce production of interferon. J Interferon Cytokine Res. 1996 Oct;16(10):799-803.	
		SPARWASSER et al., Bacterial DNA causes septic shock. Nature. 1997 Mar 27;386(6623):336-7.	
		SPARWASSER et al., Immunostimulatory CpG-oligodeoxynucleotides cause extramedullary murine hemopoiesis. J Immunol. 1999 Feb 15;162(4):2368-74.	
		SPARWASSER et al., Macrophages sense pathogens via DNA motifs: induction of tumor necrosis factor-alpha-mediated shock. Eur J Immunol. 1997 Jul;27(7):1671-9.	
		STEIN et al., Problems in interpretation of data derived from in vitro and in vivo use of antisense oligodeoxynucleotides. Antisense Res Dev. 1994 Summer;4(2):67-9.	
		STEIN et al., Physicochemical properties of phosphorothioate oligodeoxynucleotides. Nucleic Acids Res. 1988 Apr 25;16(8):3209-21.	
		STEIN et al., Non-antisense effects of oligodeoxynucleotides. Antisense Technology. 1997; ch11: 241-64.	
		STIRCHAK et al., Uncharged stereoregular nucleic acid analogs: 2. Morpholino nucleoside oligomers with carbamate internucleoside linkages. Nucleic Acids Res. 1989 Aug 11;17(15):6129-41.	
		STUNZ et al., Inhibitory oligonucleotides specifically block effects of stimulatory CpG oligonucleotides in B cells. Eur J Immunol. 2002 May;32(5):1212-22.	
		SUN et al. Type I interferon-mediated stimulation of T cells by CpG DNA. J Exp Med. 1998 Dec 21;188(12):2335-42.	
↓		SUN et al. Multiple effects of immunostimulatory DNA on T cells and the role of type I interferons. Springer Semin Immunopathol. 2000;22(1-2):77-84.	

EXAMINER:	DATE CONSIDERED:
/Nina Archie/	03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet	16	of	20
-------	----	----	----

APPLICATION NO.: 10/690,495	ATTY. DOCKET NO.: C1039.70083US00
FILING DATE: October 21, 2003	CONFIRMATION NO.: 8657
APPLICANT: Krieg et al.	
GROUP ART UNIT: 1645	EXAMINER: Nina Archie

/NA/	TACKET et al., Phase 1 safety and immune response studies of a DNA vaccine encoding hepatitis B surface antigen delivered by a gene delivery device. Vaccine. 1999 Jul 16;17(22):2826-9.
	TARKÖY et al., Nucleic-Acid Analogues with Constraint Conformational Flexibility in the Sugar-Phosphate Backbone ('Bicyclo-DNA'). Part 1. Preparation of (3S,5'R)-2'-Deoxy-3',5'-ethano-αβ-D-ribonucleosides ('Bicyclonucleosides'). Helv Chim Acta. 1993 Feb 10;76(1): 481-510.
	THREADGILL et al., Mitogenic synthetic polynucleotides suppress the antibody response to a bacterial polysaccharide. Vaccine. 1998 Jan;16(1):76-82.
	UHLMANN et al., Recent advances in the development of immunostimulatory oligonucleotides. Curr Opin Drug Discov Devel. 2003 Mar;6(2):204-17.
	VANENDRIESCHE et al., Acyclic oligonucleotides: possibilities and limitations. Tetrahedron. 1993 Aug 13;49(33): 7223-38.
	VERTHELYI et al., Immunoregulatory activity of CpG oligonucleotides in humans and nonhuman primates. Clin Immunol. 2003 Oct;109(1):64-71.
	VERTHELYI et al., Human peripheral blood cells differentially recognize and respond to two distinct CPG motifs. J Immunol. 2001 Feb 15;166(4):2372-7.
	VICARI et al., Reversal of tumor-induced dendritic cell paralysis by CpG immunostimulatory oligonucleotide and anti-interleukin 10 receptor antibody. J Exp Med. 2002 Aug 19;196(4):541-9.
	VLASSOV et al., In Vivo pharmacokinetics of oligonucleotides following administration by different routes. CRC Press, Inc. Chapter 5. 1995: 71-83.
	VOLLMER et al., Highly immunostimulatory CpG-free oligodeoxynucleotides for activation of human leukocytes. Antisense Nucleic Acid Drug Dev. 2002 Jun;12(3):165-75.
	VOLLMER et al., Characterization of three CpG oligodeoxynucleotide classes with distinct immunostimulatory activities. Eur J Immunol. 2004 Jan;34(1):251-62.
	VOLLMER et al., Modulation of CpG oligodeoxynucleotide-mediated immune stimulation by locked nucleic acid (LNA). Oligonucleotides. 2004 Spring;14(1):23-31.
	WAGNER, Interactions between bacterial CpG-DNA and TLR9 bridge innate and adaptive immunity. Curr Opin Microbiol. 2002 Feb;5(1):62-9.
	WAGNER et al., CpG motifs are efficient adjuvants for genetic vaccines to induce antigen-specific protective anti-tumor T cell responses. 2000;203:429. Abstract R46.
	WANG et al., CpG oligodeoxynucleotides inhibit tumor growth and reverse the immunosuppression caused by the therapy with 5-fluorouracil in murine hepatoma. World J Gastroenterol. 2005 Feb 28;11(8):1220-4.
	WEERATNA et al., CpG ODN can re-direct the Th bias of established Th2 immune responses in adult and young mice. FEMS Immunol Med Microbiol. 2001 Dec;32(1):65-71.
	WEERATNA et al., CpG DNA induces stronger immune responses with less toxicity than other adjuvants. Vaccine. 2000 Mar 6;18(17):1755-62.
	WEINER et al., The immunobiology and clinical potential of immunostimulatory CpG oligodeoxynucleotides. J Leukoc Biol. 2000 Oct;68(4):455-63.
↓	WEINER et al., Immunostimulatory oligodeoxynucleotides containing the CpG motif are effective as immune adjuvants in tumor antigen immunization. Proc Natl Acad Sci U S A. 1997 Sep 30;94(20):10833-7.

EXAMINER:

/Nina Archie/

DATE CONSIDERED:

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449/A and B (modified PTO/SB/08) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 10/690,495	ATTY. DOCKET NO.: C1039.70083US00
				FILING DATE: October 21, 2003	CONFIRMATION NO.: 8657
				APPLICANT: Krieg et al.	
				GROUP ART UNIT: 1645	EXAMINER: Nina Archie
Sheet	17	of	20		

/NA/		WERNETTE et al., CpG oligodeoxynucleotides stimulate canine and feline immune cell proliferation. Vet Immunol Immunopathol. 2002 Jan 15;84(3-4):223-36.	
		WHITESELL et al., Stability, clearance, and disposition of intraventricularly administered oligodeoxynucleotides: implications for therapeutic application within the central nervous system. Proc Natl Acad Sci U S A. 1993 May 15;90(10):4665-9.	
		YI et al. Rapid induction of mitogen-activated protein kinases by immune stimulatory CpG DNA. J Immunol. 1998 Nov 1;161(9):4493-7.	
		YI et al., Rapid immune activation by CpG motifs in bacterial DNA. Systemic induction of IL-6 transcription through an antioxidant-sensitive pathway. J Immunol. 1996 Dec 15;157(12):5394-402.	
		YI et al., IFN-gamma promotes IL-6 and IgM secretion in response to CpG motifs in bacterial DNA and oligodeoxynucleotides. J Immunol. 1996 Jan 15;156(2):558-64.	
		YI et al. CpG oligodeoxyribonucleotides rescue mature spleen B cells from spontaneous apoptosis and promote cell cycle entry. J Immunol. 1998 Jun 15;160(12):5898-906.	
		YU et al., Accessible 5'-end of CpG-containing phosphorothioate oligodeoxynucleotides is essential for immunostimulatory activity. Bioorg Med Chem Lett. 2000 Dec 4;10(23):2585-8.	
		YU et al., Modulation of immunostimulatory activity of CpG oligonucleotides by site-specific deletion of nucleobases. Bioorg Med Chem Lett. 2001 Sep 3;11(17):2263-7.	
		ZHAO et al., Pattern and kinetics of cytokine production following administration of phosphorothioate oligonucleotides in mice. Antisense Nucleic Acid Drug Dev. 1997 Oct;7(5):495-502.	
		ZHAO et al., Modulation of oligonucleotide-induced immune stimulation by cyclodextrin analogs. Biochem Pharmacol. 1996 Nov 22;52(10):1537-44.	
		ZHAO et al., Effect of different chemically modified oligodeoxynucleotides on immune stimulation. Biochem Pharmacol. 1996 Jan 26;51(2):173-82.	
		ZHAO et al., Site of chemical modifications in CpG containing phosphorothioate oligodeoxynucleotide modulates its immunostimulatory activity. Bioorg Med Chem Lett. 1999 Dec 20;9(24):3453-8.	
		ZHAO et al., Immunostimulatory activity of CpG containing phosphorothioate oligodeoxynucleotide is modulated by modification of a single deoxynucleoside. Bioorg Med Chem Lett. 2000 May 15; 10(10):1051-4. Abstract Only.	
		ZHU et al., Modulation of ovalbumin-induced Th2 responses by second-generation immunomodulatory oligonucleotides in mice. Int Immunopharmacol. 2004 Jul;4(7):851-62.	
		Patent Interference No. 105,171. Iowa Preliminary Motion 3 (for judgment based on failure to comply with 35 U.S.C. 135(b)). (Electronically filed, unsigned). June 7, 2004.	
		Patent Interference No. 105,171. Iowa Preliminary Motion 4 (for judgment of no interference in fact). (Electronically filed, unsigned). June 7, 2004.	
		Patent Interference No. 105,171. Iowa Preliminary Motion 5 (for judgment based on lack of enablement). (Electronically filed, unsigned). June 7, 2004.	
		Patent Interference No. 105,171. Iowa Preliminary Motion 6 (for judgment based on lack of adequate written description). (Electronically filed, unsigned). June 7, 2004.	
↓		Patent Interference No. 105,171. Iowa Preliminary Motion 7 (motion to redefine interference to designate claims as not corresponding to the Count). (Electronically filed, unsigned). June 7, 2004.	

EXAMINER:	DATE CONSIDERED:
/Nina Archie/	03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

INFORMATION DISCLOSURE STATEMENT BY APPLICANT			APPLICATION NO.: 10/690,495	ATTY. DOCKET NO.: C1039.70083US00	
			FILING DATE: October 21, 2003	CONFIRMATION NO.: 8657	
			APPLICANT: Krieg et al.		
			GROUP ART UNIT: 1645	EXAMINER: Nina Archie	
Sheet	18	of	20		

INA/		Patent Interference No. 105,171. Iowa Preliminary Motion 8 (contingent motion to redefine the Count). (Electronically filed, unsigned). June 7, 2004.	
		Patent Interference No. 105,171. Iowa Preliminary Motion 9 (motion for benefit of earlier application). (Electronically filed, unsigned). June 7, 2004.	
		Patent Interference No. 105,171. Iowa Preliminary Motion 10 (contingent motion to redefine the interference by adding a continuation application). (Electronically filed, unsigned). July 2, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Opposition 3 (to Iowa Preliminary Motion 3 for judgment under 35 USC 135(b)). September 9, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Opposition 4 (to Iowa Preliminary Motion 4 for judgment of no interference in fact). September 9, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Opposition 5 (to Iowa Preliminary Motion 5 for judgment that UC's claim is not enabled). September 9, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Opposition 6 (to Iowa Preliminary Motion 6 for judgment based on lack of adequate written description). September 9, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Opposition 7 (to Iowa Preliminary Motion 7 to redefine the interference). September 9, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Opposition 8 (to Iowa Preliminary Motion 8 to redefine the Count). September 9, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Response 9 (to Iowa Contingent Motion 9 for benefit). September 9, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Opposition 10 (to Iowa Contingent Motion 10 to redefine the interference). September 9, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Opposition 11 (to Iowa Contingent Motion 11 to suppress). October 15, 2004.	
		Patent Interference No. 105,171. Iowa Reply 3 (in support of Iowa Preliminary Motion 3 for judgment under 35 U.S.C. §135(b)) (Electronically filed, unsigned). October 15, 2004.	
		Patent Interference No. 105,171. Iowa Reply 4 (in support of Iowa Preliminary Motion for judgment of no interference in fact) (Electronically filed, unsigned). October 15, 2004.	
		Patent Interference No. 105,171. Iowa Reply 5 (in support of Iowa Preliminary Motion 5 for judgment that UC's claim 205 is not enabled) (Electronically filed, unsigned). October 15, 2004.	
		Patent Interference No. 105,171. Iowa Reply 6 (in support of Iowa Preliminary Motion 6 for judgment based on lack of adequate written description) (Electronically filed, unsigned). October 15, 2004.	
		Patent Interference No. 105,171. Iowa Reply 7 (in support of Iowa Preliminary Motion 7 to redefine the interference) (Electronically filed, unsigned). October 15, 2004.	
		Patent Interference No. 105,171. Iowa Reply 8 (in support of Iowa Preliminary Motion 8 to redefine the count) (Electronically filed, unsigned). October 15, 2004.	
		Patent Interference No. 105,171. Iowa Reply 10 (in support of Iowa Preliminary Motion 10 to redefine the interference) (Electronically filed, unsigned). October 15, 2004.	
↓		Patent Interference No. 105,171. Iowa Reply 11 (in support of Iowa Miscellaneous Motion to suppress). (Electronically filed, unsigned). October 18, 2004.	

EXAMINER:	/Nina Archie/	DATE CONSIDERED:	03/10/2007
-----------	---------------	------------------	------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

APPLICATION NO.: 10/690,495	ATTY. DOCKET NO.: C1039.70083US00
FILING DATE: October 21, 2003	CONFIRMATION NO.: 8657
APPLICANT: Krieg et al.	
GROUP ART UNIT: 1645	EXAMINER: Nina Archie

Sheet	19	of	20
-------	----	----	----

/NA/		Patent Interference No. 105,171. Regents of the University of California Preliminary Statement. June 7, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Preliminary Motion 1 (to designate additional claims of Iowa patent as corresponding to the Count). June 7, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Preliminary Motion 2 (for judgment based on lack of written description support and introducing new matter). June 7, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Preliminary Motion 3 (for judgment based on anticipation). June 7, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Preliminary Motion 4 (for judgment based on obviousness). June 7, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Preliminary Motion 5 (for judgment based on anticipation). June 7, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Preliminary Motion 6 (for judgment based on inequitable conduct). June 7, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Contingent Preliminary Motion 7 (for benefit of an earlier application under 37 CFR 1.633(j)). July 2, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Contingent Preliminary Motion 8 (to add additional claims under 37 CFR 1.633(c)(2) and (i)). July 2, 2004.	
		Amended Claims for Application Number 09/265,191, filed March 10, 1999.	
		Patent Interference No. 105,171. Iowa Opposition 1 (opposition to motion to designate additional claims as corresponding to the Count) (Electronically filed, unsigned). September 9, 2004.	
		Patent Interference No. 105,171. Iowa Opposition 2 (opposition to motion for judgment based on lack of written description support and introducing new matter) (Electronically filed, unsigned). September 9, 2004.	
		Patent Interference No. 105,171. Iowa Opposition 3 (opposition to motion for judgment based on anticipation) (Electronically filed, unsigned). September 9, 2004.	
		Patent Interference No. 105,171. Iowa Opposition 4 (opposition to motion for judgment based on obviousness) (Electronically filed, unsigned). September 9, 2004.	
		Patent Interference No. 105,171. Iowa Opposition 5 (opposition to motion for judgment based on anticipation) (Electronically filed, unsigned). September 9, 2004.	
		Patent Interference No. 105,171. Iowa Opposition 6 (opposition to motion for judgment based on inequitable conduct) (Electronically filed, unsigned). September 9, 2004.	
		Patent Interference No. 105,171. Iowa Opposition 7 (opposition to motion for benefit of an earlier application under 7 CFR 1.633(j)) (Electronically filed, unsigned). September 9, 2004.	
		Patent Interference No. 105,171. Iowa Opposition 8 (opposition to motion to add additional claims under 37 CFR 1.633 (2) and (i)) (Electronically filed, unsigned). September 9, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Reply 1 (to Iowa's opposition to UC's motion to designate Iowa claims as corresponding to the Count). October 15, 2004.	
		Patent Interference No. 105,171. Regents of the University of California Reply 2 (to Iowa's opposition to UC Preliminary Motion 2 for Judgment). October 15, 2004.	
↓		Patent Interference No. 105,171. Regents of the University of California Reply 3 (to Iowa's Opposition to UC Preliminary Motion 3 for Judgment). October 15, 2004.	

EXAMINER:

/Nina Archie/

DATE CONSIDERED:

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet 20 of 20

APPLICATION NO.: 10/690,495

ATTY. DOCKET NO.: C1039.70083US00

FILING DATE: October 21, 2003

CONFIRMATION NO.: 8657

APPLICANT: Krieg et al.

GROUP ART UNIT: 1645

EXAMINER: Nina Archie

/NA/	Patent Interference No. 105,171. Regents of the University of California Reply 4 (to Iowa's Opposition to UC Preliminary Motion 4 for Judgment). October 15, 2004.	
	Patent Interference No. 105,171. Regents of the University of California Reply 5 (to Iowa's Opposition to UC Preliminary Motion 5 for Judgment). October 15, 2004.	
	Patent Interference No. 105,171. Regents of the University of California Reply 6 (to Iowa's opposition to UC Preliminary Motion 6 for judgment). October 15, 2004.	
	Patent Interference No. 105,171. Regents of the University of California Reply 7 (to Iowa's Opposition to UC Preliminary Motion 7 for Benefit). October 15, 2004.	
	Patent Interference No. 105,171. Regents of the University of California Reply 8 (to Iowa's Opposition to UC Preliminary Motion 8 to add additional claims). October 15, 2004.	
	Patent Interference No. 105,171. Decision on Motion under 37 CFR §41.125. March 10, 2005.	
	Patent Interference No. 105,171. Judgment and Order. March 10, 2005.	
	Patent Interference No. 105,171. Regents of the University of California. Brief of Appellant. July 5, 2005.	
	Patent Interference No. 105,171. University of Iowa and Coley Pharmaceutical Group, Inc. Brief of Appellees. August 17, 2005.	
	Patent Interference No. 105,171. Regents of the University of California. Reply Brief of Appellant. September 6, 2005.	
	Patent Interference No. 105,171. Regents of the University of California. Decision of CAFC. July 17, 2006.	

A copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. __, filed __, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

NOTE – No copies of U.S. patents, published U.S. patent applications, or pending, unpublished patent applications stored in the USPTO's Image File Wrapper (IFW) system, are included. See 37 CFR §1.98 and 1287OG163. Copies of all other patent(s), publication(s), unpublished, pending U.S. patent applications, or other information listed are provided as required by 37 CFR §1.98 unless 1) such copies were provided in an IDS in an earlier application that complies with 37 CFR §1.98, and 2) the earlier application is relied upon for an earlier filing date under 35 U.S.C. §120.]

EXAMINER:

/Nina Archie/

DATE CONSIDERED:

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

APPLICATION NO.: 10/690,495

ATTY. DOCKET NO.: C1039.70083US00

FILING DATE: October 21, 2003

CONFIRMATION NO.:

APPLICANT: Arthur M. Krieg et al.

GROUP ART UNIT: Not yet assigned

EXAMINER: Not yet assigned

Sheet 1 of 7

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
INA/	*	2,215,233		Ruskin	09-17-1940
	*	3,911,117		Ender	10-07-1975
	*	3,914,450		Robbins et al.	10-21-1975
	*	4,544,559		Gil et al.	10-01-1985
	*	4,741,914		Kimizuka et al.	05-03-1988
	*	4,758,553		Ogoshi	07-19-1988
	*	4,806,376		Saeki et al.	02-21-1989
	*	4,963,387		Nakagawa et al.	10-16-1990
	*	4,956,296		Fahnestock	09-11-1990
	*	4,994,442		Gil et al	02-19-1991
	*	5,066,500		Gil et al.	11-19-1991
	*	5,231,085		Alexander et al.	07-27-1993
	*	5,234,811		Beutler et al.	08-10-1993
	*	5,268,365		Rudolph et al.	12-07-1993
	*	5,288,509		Potman et al.	02-22-1994
	*	5,488,039		Masor et al.	01-30-1996
	*	5,492,899		Masor et al.	02-20-1996
	*	5,585,479		Hoke et al.	12-17-1996
	*	5,591,721		Agrawal et al.	01-07-1997
	*	5,602,109		Masor et al.	02-11-1997
	*	5,612,060		Alexander	03-18-1997
	*	5,650,156		Grinstaff et al.	07-22-1997
	*	5,663,153		Hutcherson et al.	09-02-1997
	*	5,679,647		Carson et al.	10-21-1997
	*	5,684,147		Agrawal et al	11-04-1997
	*	5,700,590		Masor et al.	12-23-19*97
	*	5,712,256		Kulkarni et al.	01-27-1998
	*	5,723,335		Hutcherson et al.	03-03-1998
	*	5,756,353		Debs	05-26-1998
	*	5,786,189		Locht et al.	07-28-1998
	*	5,840,705		Tsukuda	11-24-1998
	*	5,895,652		Giampapa	04-20-1999
	*	5,922,766		Acosta et al.	07-13-1999
	*	5,929,226		Padmapriya	07-27-1999
	*	5,976,580		Ivey et al.	11-02-1999
	*	5,980,958		Naylor et al	11-09-1999

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

FILING DATE: October 21, 2003

CONFIRMATION NO.:

APPLICANT: Arthur M. Krieg et al.

GROUP ART UNIT: Not yet assigned

EXAMINER: Not yet assigned

Sheet

2

of

7

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
/NA/	*	6,004,534		Langer et al.	12-21-1999
	*	6,022,853		Kuberasampath et al.	02-08-2000
	*	6,031,086		Switzer	02-29-2000
	*	6,191,257		Ledley et al.	02-20-2001
	*	6,194,388	B1	Krieg et al.	02-27-2001
	*	6,207,646	B1	Krieg et al.	03-27-2001
	*	6,214,806	B1	Krieg et al.	04-10-2001
	*	6,218,371	B1	Krieg et al.	04-17-2001
	*	6,225,292	B1	Raz et al.	05-01-2001
	*	6,239,116	B1	Krieg et al.	05-29-2001
	*	6,248,720		Mathiowitz et al.	06-19-2001
	*	6,339,068	B1	Krieg et al.	01-15-2002
	*	6,406,705	B1	Davis et al.	06-18-2002
	*	6,429,199	B1	Krieg et al.	08-06-2002
	*	6,498,147		Nerenberg et al.	12-24-2002
	*	6,498,148	B1	Raz	12-24-2002
	*	6,503,533		Korba	01-07-2003
	*	6,514,948	B1	Raz, et al.	02/04/2003
	*	6,534,062	B2	Krieg, et al.	03/18/2003
	*	6,552,006	B2	Raz et al.	04/22/2003
	*	6,562,798	B1	Schwartz	05/13/2003
	*	6,589,940	B1	Raz et al.	07/08/2003
	*	6,610,661	B1	Carson et al.	08/26/2003
	*	6,653,292	B1	Krieg et al.	11/25/2003
	*	US 2001/0046967	A1	Van Nest	11/29/2001
	*	US 2002/0028784	A1	Van Nest	03/07/2002
	*	US 2002/0055477	A1	Nest	05/09/2002
	*	US 2002/0098199	A1	Nest et al.	07/25/2002
	*	US 2002/0107212	A1	Van Nest et al.	08/08/2002
	*	US 2002/0142978	A1	Van Nest et al.	10/03/2002
	*	US 2002/0156033	A1	Raz et al.	10/24/2002
	*	US 2003/0022852	A1	Van Nest et al.	01/30/2003
	*	US 2003/0049266	A1	Bratzler et al.	03/13/2003
	*	US 2003/0050263	A1	Fearon et al.	03/13/2003
	*	US 2003/0059773	A1	Van Nest et al.	03/27/2003

FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 10/690,495		ATTY. DOCKET NO.: C1039.70083US00	
				FILING DATE: October 21, 2003		CONFIRMATION NO.:	
				APPLICANT: Arthur M. Krieg et al.			
				GROUP ART UNIT: Not yet assigned		EXAMINER: Not yet assigned	
Sheet	3	of	7				

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
/NA/	*	US 2003/0078223	A1	Krieg et al.	04/24/2003
	*	US 2003/0092663	A1	Raz et al.	05/15/2003
	*	US 2003/0109469	A1	Raz	06/12/2003
	*	US 2003/0119773	A1	Carson et al.	06/26/2003
	*	US 2003/0129251	A1	Raz et al.	07/10/2003
	*	US 2003/0133988	A1	Van Nest et al.	07/17/2003
	*	US 2003/0143213	A1	Fearon et al.	07/31/2003
	*	US 2003/0147870	A1	Raz et al.	08/07/2003
	*	US 2003/0175731	A1	Raz et al.	09/18/2003
	*	US 2003/0186921	A1	Rearon et al	10/02/2003
	*	US 2003/0199466	A1	Fearon et al.	10-23-2003
	*	US 2003/0212028	A1	Raz et al.	11-13-2003
	*	US 2003/0216340	A1	Van Nest et al.	11-20-2003

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
	**	JP	56-008307			01-28-1981	
	**	JP	60-120962			06-28-1985	
	**	EPO	0 178 267 A2			04-16-1986	
	**	JP	62-025960			02-03-1987	
	**	JP	62-148428			07-02-1987	
	**	JP	224259			10-02-1987	
	**	GB	2 216 416 A			11-10-1989	
	**	PCT	US91/05815			08-14-1991	
	**	PCT	US91/01327			09-05-1991	
	**	EP	0 468 520 A3			01-29-1992	
	**	PCT	0 216 133 B1			07-28-1993	
	**	FR	2692897			12-31-1993	
	**	PCT	US94/02471			03-07-1994	
	**	EP	0 302 758 B1			03-16-1994	
	**	PCT	WO95/26204			10-1995	
	**	PCT	WO96/02555			02-01-1996	
	**	JP	8051953			02-27-1996	
	**	JP	8187059			07-23-1996	
	**	JP	9019276			01-21-1997	

FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 10/690,495		ATTY. DOCKET NO.: C1039.70083US00	
				FILING DATE: October 21, 2003		CONFIRMATION NO.:	
				APPLICANT: Arthur M. Krieg et al.			
				GROUP ART UNIT: Not yet assigned		EXAMINER: Not yet assigned	
Sheet	4	of	7				

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
/NA/	**	CN	1141740A			02-05-1997	
	**	PCT	WO97/42975			11-1997	
	**	CN	1169434			01-07-1998	
	**	JP	10108655			04-28-1998	
	**	PCT	WO98/49348			11-05-1998	
	**	CN	1211443			03-24-1999	
	**	PCT	WO99/37151			07-29-1999	
	B1	WO	98/16247	A1	Regents of the University of CA	04-23-1998	
	B2	WO	99/11275	A2	Regents of the University of CA	03-11-1999	
	B3	WO	99/62923	A2	Dynavax Tech. Corp	12/09/1999	
	B4	WO	00/20039	A1	Regents of the University of CA	04/13/2000	
	B5	WO	00/21556	A1	Dynavax Tech Corp.	04/20/2000	
	B6	WO	00/62787	A1	Regents of the University of CA	10/26/2000	
	B7	WO	01/02007	A1	The Regents of the Univ. of California	01-11-2001	
	B8	WO	01/12804	A2	Hybridon, Inc.	02-22-2001	
	B9	WO	01/12223	A2	Dynavax Tech. Corp.	02-22-2001	
	B10	WO	01/55341	A2	The Regents of the Univ. of California	08-02-2001	
	B11	WO	01/68117	A2	Dynavax Tech. Corp.	09-20-2001	
	B12	WO	01/68116	A2	Dynavax Tech. Corp.	09-20-2001	
	B13	WO	01/68078	A2	Dynavax Tech. Corp.	09-20-2001	
	B14	WO	01/68077	A2	Dynavax Tech. Corp.	09-20-2001	
	B15	WO	01/68103	A2	Dynavax Tech. Corp.	09-20-2001	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
	**	Anfossi et al. (P.N.A.S., 86, 9, 3379-83, 89, HCAPLUS, AN 1989:475562)	
	**	Agrawal, et al., "Absorption, Tissue Distribution and <i>In Vivo</i> Stability in Rats of a Hybrid Antisense Oligonucleotide Following Oral Administration" <i>Biochemical Pharmacology</i> (1995) 50:4:571-576	
	**	Agrawal, S, "Antisense Oligonucleotides: Toward Clinical Trials", <i>Tibtech</i> (1996) 14:376-387	
	**	Agrawal, S. and Zhang, R., "Pharmacokinetics and Bioavailability of Antisense Oligonucleotides Following Oral and Colorectal Administration in Experimental Animals" <i>Handb. Exp. Pharmacol.</i> (1998) Vol. 131 Antisense Research and Application pp. 525-543	
↓	**	Agrawal, S. and Zhang, R., "Pharmacokinetics of Oligonucleotides" <i>Ciba Found Symp.</i> (1997) 209:60-78	

FORM PTO-1449/A and B (Modified)				APPLICATION NO.: 10/690,495	ATTY. DOCKET NO.: C1039.70083US00
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FILING DATE: October 21, 2003	CONFIRMATION NO.:
				APPLICANT: Arthur M. Krieg et al.	
				GROUP ART UNIT: Not yet assigned	EXAMINER: Not yet assigned
Sheet	5	of	7		

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
/NA/	**	Azad, Raana F. et al., "Antiviral Activity of a Phosphorothioate Oligonucleotide Complementary to RNA of the Human Cytomegalovirus Major Immediate-Early Region," <i>Antimicrobial Agents and Chemotherapy</i> , (1993) 37: 1945-1954.	
	**	Azuma, I., "Biochemical and Immunological Studies on Cellular Components of Tubercle Bacilli," <i>Kekkaku</i> (1992) 67(9):45-55.	
	**	Blaxter et al., "Genes expressed in <i>Brugia malayi</i> infective third stage larvae," <i>Molecular and Biochemical Parasitology</i> , (1996) 77:77-93.	
	***	Bodey et al. "Failure of cancer vaccines: The significant limitation of this approach to immunotherapy" pp. 2665-2676 2000	
	**	Boiarkina, et al., "Dietary supplementa from ground fish meat with DNA for treatment and prophylaxis", <i>Vopr Pitan</i> , (1998); (1):29-31. <u>Abstract</u>	
	**	Branda et al., "Immune Stimulation by an Antisense Oligomer Complementary to the rev gene of HIV-1," <i>Biochemical Pharmacology</i> , (1993) 45(10):2037-2043.	
	**	Chace, et al., "Regulation of Differentiation in CD5+ and Conventional B Cells", <i>Clin. Immunol. and Immunopath</i> , 68(3):327-332 (1993)	
	**	Chu, et al., "CpG Oligodeoxynucleotides Act as Adjuvants That Switch on T Helper 1 (Th1) Immunity", <i>J. Exp. Med.</i> , (1997) 186(10): 1623-1631	
	**	Crystal, "Transfer of Genes to Humans: Early Lessons and Obstacles to Success," <i>Science</i> , (1995) 270:404-410.	
	***	Curtis, Biology, Second Edition, pages 638-641	
	**	Davis, et al., "CpG DNA Is A Potent Enhancer Of Specific Immunity In Mice Immunized With Recombinant Hepatitis B Surface Antigen", <i>J. Immunol</i> , (1998) 160:870-876	
	**	Doerfler, et al., "On the Insertion of Foreign DNA into Mammalian Genomes: Mechanism and Consequences" <i>Gene</i> 157:241-245 (1995)	
	***	Etchart et al. "Class I-restricted CTL induction by mucosal immunization with naked DNA encoding measles virus haemagglutinin" pp. 15775761 vol 72, 1998	
	**	Etlinger, "Carrier Sequence Selection -- One Key to Successful Vaccines," <i>Immunology Today</i> , (1992) 13(2):52-55	
	**	Fanslow, et al., "Effect of nucleotide restriction and supplementation on resistance to experimental murine candidiasis", <i>J. Parenter Enteral Nutr.</i> , (1998) 12(1):49-52 <u>Abstract</u>	
	**	Fox, R.I., "Mechanism of Action of Hydroxychloroquine as an antirheumatic Drug," <i>Chemical Abstracts</i> (1994) 120:15, Abstract No. 182630	
	***	Gilboa Immunotherapy of cnacer with genetically modified tumor vaccines pp. 101-107 1996	
	**	Hedley et al., "Microspheres containing plasmid-encoded antigens elicit cytotoxic T-cell responses" pp. 365-368, vol. 4 no. 3 1998	
	***	Hohlweg et al., "On the fate of plant other foreign genes upon th uptake in food or after intramuscular injection in mice" 2001, <i>Mol. Genet Genomics</i> , Vol. 265, pages 225-233	
	***	Jones et al. "Poly(DdL-lactide-co-glycolide)-encapsulated plasmid DNA elicits sytemic and mucosal antibody responses to encoded protein after oral administration" pp 814-817, vol. 15, no. 8 1997	
	**	Kataoka T, et al., "Antitumor Activity of Synthetic Oligonucleotides with Sequences from cDNA Encoding Proteins of <i>Mycobacterium bovis</i> BCG," <i>Jpn. J. Cancer Res</i> (1992) 83:244-247.	
✓	**	Kimura Y, et al., "Binding of Oligoguanylate to Scavenger Receptors Is Required for Oligonucleotides to Augment NK Cell Activity and Induce IFN," <i>J. Biochem</i> (1994) 116(5):991-994	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APPLICATION NO.: 10/690,495

ATTY. DOCKET NO.: C1039.70083US00

FILING DATE: October 21, 2003

CONFIRMATION NO.:

APPLICANT: Arthur M. Krieg et al.

GROUP ART UNIT: Not yet assigned

EXAMINER: Not yet assigned

Sheet 6 of 7

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
/NA/	**	Krieg, et al., "CpG Motifs in Bacterial DNA Trigger Direct B-cell Activation", <i>Nature</i> , 374:546-549 (1995)	
	**	Krieg, et al., "Brief Communication: Oligodeoxynucleotide Modifications Determine the Magnitude of B Cell Stimulation by CpG Motifs", <i>Antisense & Nucleic Acid Drug Delivery Development</i> , 6:133-139 (1996)	
	**	Kuchan, et al., "Nucleotides in Infant Nutrition: Effects on Immune Function" <i>Pediatric Nutrition. Pediatr. Adolesc. Med. Basel. Karger</i> (1998) 8:80-94.	
	**	Kulkarni, et al., "Effect of dietary nucleotides on responses to bacterial infections", <i>J. Parenter Enteral. Nutr.</i> , (1986) 10(2):169-71 Abstract	
	**	Kuramoto et al., "Oligonucleotide Sequences Required for Natural Killer Cell Activation," <i>Jpn. J. Cancer Res.</i> , (1992) 83:1128-1131.	
	***	Lehninger, Biochemistry, Second Edition	
	**	Mastrangelo et al., "Gene Therapy for Human Cancer: An Essay for Clinicians," <i>Seminars in Oncology</i> (1996) 23(1):4-21.	
	***	McCluskie et al. "Novel strategies using DNA for the induction of mucosal immunity" pp. 303-325 1999	
	**	Messina et al., "The Influence of DNA Structure on the <i>in vitro</i> Stimulation of Murine Lymphocytes by Natural and Synthetic Polynucleotide Antigens," <i>Cellular Immunology</i> (1993) 147:148-157.	
	**	Messina et al., "Stimulation of <i>in vitro</i> Murine Lymphocyte Proliferation by Bacterial DNA," <i>The Journal of Immunology</i> (1991) 147(6):1759-1764.	
	**	Mottram, et al., "a Novel CDC2-Related Protein Kinase From Leishmania Mexicana LmmCRK1. Is Post-Translationally Regulated During the Life Cycle", <i>J. Biol. Chem.</i> , 268(28):21044-21052 (1993)	
	***	Perspective pp. 155-156 1999	
	***	Ray et al. "Oral pretreatment of mice with immunostimulatory CpG DNA induces reduced susceptibility to listeria monocytogenes." Vol 15, No. 5, pp. A1007 2001	
	**	Ren jun et al. (Zhonghua Zhong Zazhi, 1994, 16, 4, 247-50, HCAPLUS, AN 1995: 198874)	
	**	Sato et al., "Immunostimulatory DNA Sequences Necessary for Effective Intradermal Gene Immunization," <i>Science</i> (1996) 273:352-354.	
	**	Schnell et al., "Identification and Characterization of a <i>Saccharomyces Cerevisiae</i> Gene (PAR1) Conferring Resistance to Iron Chelators," <i>Eur. J. Biochem.</i> (1991) 200:487-493.	
	**	Shubbert, et al., "Ingested Foreign (phage M13) DNA Survives Transiently in the Gastrointestinal Tract and Enters the Bloodstream of Mice" <i>Mol. Gen. Genet.</i> (1994) 242:495-504	
	**	Stull et al., "Antigene, Ribozyme and Aptamer Nucleic Acid Drugs: Progress and Prospects," <i>Pharmaceutical Research</i> , (1995) 12(4):465-483.	
	**	Tanaka T. et al., "An Antisense Oligonucleotide Complementary to a Sequence in IG2b Germine Transcripts, Stimulates B Cell DNA Synthesis, and Inhibits Immunoglobulin Secretion, <i>J. Exp. Med.</i> , (1992) 175:597-607.	
↓	**	Tokunaga T. et al., "Synthetic Oligonucleotides with Particular Base Sequences from the cDNA Encoding Proteins of <i>Mycobacterium bovis</i> BCG Induce Interferons and Activate Natural Killer Cells," <i>Microbiol. Immunol.</i> (1992) 36(1):55-66.	

FORM PTO-1449/A and B (Modified)				APPLICATION NO.: 10/690,495		ATTY. DOCKET NO.: C1039.70083US00			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				FILING DATE: October 21, 2003		CONFIRMATION NO.:			
				APPLICANT: Arthur M. Krieg et al.					
				GROUP ART UNIT: Not yet assigned		EXAMINER: Not yet assigned			
Sheet	7	of	7						

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
/NA/	**	Tokunaga, "A synthetic Single-stranded DNA, Poly(dG,dC), Induces Interferon-alpha/beta and -gamma, Augments Natural Killer Activity, and Suppresses Tumor Growth," <i>Jpn. J. Cancer Res.</i> (1988) 79(6):682-686.	
	***	Tortora et al. "Oral antisense that targets protein kinase a cooperates with taxol and inhibits tumor growth, angiogenesis, and growth factor production1" Vol.6, pp. 2506-2512 2000	
	**	Wallace et al., "Oligonucleotide Probes for the Screening of Recombinant DNA Libraries,," <i>Methods in Enzymology</i> , (1987) 152:432-442.	
	**	Whalen R., "DNA Vaccines for Emerging Infectious Disease: What If?," <i>Emerging Infectious Disease</i> , (1996) 2(3):168-175.	
	**	Wu G.Y. et al., "Receptor-mediated Gene Delivery and Expression <i>in vivo</i> ," <i>J. Biological Chemistry</i> , (1988) 263:14621-14624.	
	**	Yamamoto S. et al., "DNA from Bacteria, but not from Vertebrates, Induces Interferons, Activates Natural Killer Cells and Inhibits Tumor Growth," <i>Microbiol. Immunol.</i> (1992) 36(9):983-997.	
	**	Yamamoto S. et al., "Mode of Action of Oligonucleotide Fraction Extracted from <i>Mycobacterium bovis</i> BCG," <i>Kekkaku</i> (1994) 69(9):29-32.	
	**	Yamamoto S. et al., "Unique Palindromic Sequences in Synthetic Oligonucleotides Are Required to Induce IFN [correction of INF] and Augment IFN-mediated [correction of INF] Natural Killer Activity," <i>J. Immunol.</i> (1992) 148(12):4072-4076.	
	**	Yamamoto T. et al., "Ability of Oligonucleotides with Certain Palindromes to Induce Interferon Production and Augment Natural Killer Cell Activity is Associated with their Base Length," <i>Antisense Res. And Devel.</i> (1994) 4:119-123.	
	**	Yamamoto T. et al., "Lipofection of Synthetic Oligodeoxyribonucleotide having a Palindromic Sequence of AACGTT to Murine Splenocytes Enhances Interferon Production and Natural Killer Activity," <i>Microbiol. Immunol.</i> (1994) 38(10):831-836.	
	**	Yamamoto T. et al., "Synthetic Oligonucleotides with Certain Palindromes Stimulate Interferon Production of Human Peripheral Blood Lymphocytes <i>in vitro</i> ," <i>Jpn. J. Cancer Res.</i> (1994) 85:775-779.	
	**	Yew, et al., "Contribution of Plasmid DNA to Inflammation in the Lung After Administration of Cationic Lipid: pDNA Complexes" <i>Hum Gene Ther.</i> (1999) 20:10(2):223-234 ABSTRACT	
↓	***	Yew et al. "Reduced Inflammatory response to plasmid DNA vectors by elimination and inhibition of immunostimulatory CpG motifs" pp. 255-262 vol. 1, No. 3 2000	

EXAMINER	/Nina Archie/	DATE CONSIDERED	03/10/2007
----------	---------------	-----------------	------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

copies of these patents and patent applications are not enclosed pursuant to the waiver by the USPTO of the requirement under 37 C.F.R. 1.98 (a)(2)(i) for patent applications filed after June 30, 2003.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in one of the following prior applications, Serial No. 08/386,063, filed 02/07/1995, Serial No. 09/415,142, filed 10/09/99 and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

** a copy of this reference is not provided as it was cited by Examiner in Serial No. 09/415,142, filed 10/09/99

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APPLICATION NO.: 10/690,495

ATTY. DOCKET NO.: C1039.70083US00

FILING DATE: October 21, 2003

CONFIRMATION NO.: 8657

APPLICANT: Krieg et al.

GROUP ART UNIT: 1645

EXAMINER: Patricia Ann Duffy

Sheet 1 of 5

DEC 20 2005

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
/NA/		5,399,346		Anderson et al.	03-21-1995
		5,580,859		Felgner et al.	12-03-1996
		5,589,466		Felgner et al.	12-31-1996
		5,593,972		Weiner et al.	01-14-1997
		5,641,662		Debs et al.	06-24-1997
		5,643,578		Robinson et al.	07-01-1997
		5,676,954		Brigham	10-14-1997
		5,693,622		Wolff et al.	12-02-1997
		5,703,055		Felgner et al.	12-30-1997
		5,703,057		Johnston et al.	12-30-1997
		5,827,703		Debs et al.	10-27-1998
		5,830,878		Gorman et al.	11-03-1998
		6,121,247		Huang et al.	09-19-2000
		6,221,882		Macfarlane	04-24-2001
		6,224,901	B1	Li et al.	05-01-2001
		6,399,630		Macfarlane	06-04-2002
		6,479,504		Macfarlane et al.	11-12-2002
		6,521,637		Macfarlane	02-18-2003
		6,727,230	B1	Hutcherson et al.	04-27-2004
		6,821,957	B1	Krieg et al.	11-23-2004
		6,943,240		Bauer et al.	09-13-2005
		6,949,520		Hartmann et al.	09-27-2005
		2002-0091097	A1	Bratzler et al.	07-11-2002
		2002-0164341	A1	Davis et al.	11-07-2002
		2003-0026801	A1	Weiner et al.	02-06-2003
		2003-0050261	A1	Krieg et al.	03-13-2003
		2003-0050268	A1	Krieg et al.	03-13-2003
		2003-0091599	A1	Davis et al.	05-15-2003
		2003-0100527	A1	Krieg et al.	05-29-2003
		2003-0139364	A1	Krieg et al.	07-24-2003
		2003-0148316	A1	Lipford et al.	08-07-2003
		2003-0148976	A1	Krieg et al.	08-07-2003

EXAMINER:

/Nina Archie/

DATE CONSIDERED:

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

APPLICATION NO.: 10/690,495

ATTY. DOCKET NO.: C1039.70083US00

FILING DATE: October 21, 2003

CONFIRMATION NO.: 8657

APPLICANT: Krieg et al.

GROUP ART UNIT: 1645

EXAMINER: Patricia Ann Duffy

Sheet 2 of 5

/NA/		2003-0181406	A1	Schetter et al.	09-25-2003
		2003-0191079	A1	Krieg et al.	10-09-2003
		2003-0212026	A1	Krieg et al.	11-13-2003
		2003-0224010	A1	Davis et al.	12-04-2003
		2003-0232074	A1	Lipford et al.	12-18-2003
		2003-0232856	A1	Macfarlane	12-18-2003
		2004-0009949	A1	Krieg	01-15-2004
		2004-0030118	A1	Wagner et al.	02-12-2004
		2004-0038922	A1	Haensler et al.	02-26-2004
		2004-0053880	A1	Krieg	03-18-2004
		2004-0067902	A9	Bratzler et al.	04-08-2004
		2004-0067905	A1	Krieg	04-08-2004
		2004-0087534	A1	Krieg et al.	05-06-2004
		2004-0087538	A1	Krieg et al.	05-06-2004
		2004-0092472	A1	Krieg	05-13-2004
		2004-0106568	A1	Krieg et al.	06-03-2004
		2004-0131628	A1	Bratzler et al.	07-08-2004
		2004-0132685	A1	Krieg et al.	07-08-2004
		2004-0142469	A1	Krieg et al.	07-22-2004
		2004-0143112	A1	Krieg et al.	07-22-2004
		2004-0147468	A1	Krieg et al.	07-29-2004
		2004-0152649	A1	Krieg	08-05-2004
		2004-0152656	A1	Krieg et al.	08-05-2004
		2004-0152657	A1	Krieg et al.	08-05-2004
		2004-0162258	A1	Krieg et al.	08-19-2004
		2004-0162262	A1	Krieg et al.	08-19-2004
		2004-0167089	A1	Krieg et al.	08-26-2004
		2004-0171150	A1	Krieg et al.	09-02-2004
		2004-0171571	A1	Krieg et al.	09-02-2004
		2004-0181045	A1	Krieg et al.	09-16-2004
		2004-0198680	A1	Krieg	10-07-2004
		2004-0198688	A1	Krieg et al.	10-07-2004
		2004-0229835	A1	Krieg et al.	11-18-2004
		2004-0234512	A1	Wagner et al.	11-25-2004
		2004-0235770	A1	Davis et al.	11-25-2004
		2004-0235774	A1	Bratzler et al.	11-25-2004

EXAMINER:

/Nina Archie/

DATE CONSIDERED:

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APPLICATION NO.: 10/690,495

ATTY. DOCKET NO.: C1039.70083US00

FILING DATE: October 21, 2003

CONFIRMATION NO.: 8657

APPLICANT: Krieg et al.

GROUP ART UNIT: 1645

EXAMINER: Patricia Ann Duffy

Sheet

3

of

5

/NA/		2004-0235777	A1	Wagner et al.	11-25-2004
		2004-0235778	A1	Wagner et al.	11-25-2004
		2004-0266719	A1	McCluskie et al.	12-30-2004
		2005-0004061	A1	Krieg et al.	01-06-2005
		2005-0004062	A1	Krieg et al.	01-06-2005
		2005-0009774	A1	Krieg et al.	01-13-2005
		2005-0032734	A1	Davis et al.	02-10-2005
		2005-0032736	A1	Krieg et al.	02-10-2005
		2005-0037403	A1	Krieg et al.	02-17-2005
		2005-0037985	A1	Krieg et al.	02-17-2005
		2005-0043529	A1	Davis et al.	02-24-2005
		2005-0049215	A1	Krieg et al.	03-03-2005
		2005-0049216	A1	Krieg et al.	03-03-2005
		2005-0054601	A1	Wagner et al.	03-10-2005
		2005-0054602	A1	Krieg et al.	03-10-2005
		2005-0059619	A1	Krieg et al.	03-17-2005
		2005-0059625	A1	Krieg et al.	03-17-2005
		2005-0070491	A1	Krieg et al.	03-31-2005
		2005-0075302	A1	Hutcherson et al.	04-07-2005
		2005-0100983	A1	Bauer et al.	05-12-2005
		2005-0101554	A1	Krieg et al.	05-12-2005
		2005-0101557	A1	Krieg et al.	05-12-2005
		2005-0119273	A1	Lipford et al.	06-02-2005
		2005-0123523	A1	Krieg et al.	06-09-2005
		2005-0130911	A1	Uhlmann et al.	06-16-2005
		2005-0148537	A1	Krieg et al.	07-07-2005
		2005-0169888	A1	Hartman et al.	08-04-2005
		2005-0171047	A1	Krieg et al.	08-04-2005
		2005-0181422	A1	Bauer et al.	08-18-2005
		2005-0182017	A1	Krieg	08-18-2005
		2005-0197314	A1	Krieg et al.	09-08-2005
		2005-0215500	A1	Krieg et al.	09-29-2005
		2005-0215501	A1	Lipford et al.	09-29-2005
		2005-0233995	A1	Krieg et al.	10-20-2005
		2005-0233999	A1	Krieg et al.	10-20-2005
		2005-0239732	A1	Krieg et al.	10-27-2005

EXAMINER:

/Nina Archie/

DATE CONSIDERED:

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

APPLICATION NO.: 10/690,495	ATTY. DOCKET NO.: C1039.70083US00
FILING DATE: October 21, 2003	CONFIRMATION NO.: 8657
APPLICANT: Krieg et al.	
GROUP ART UNIT: 1645	EXAMINER: Patricia Ann Duffy

Sheet 4 of 5

/NA/	2005-0239733	A1	Jurk et al.	10-27-2005
	2005-0239734	A1	Uhlmann et al.	10-27-2005
	2005-0239736	A1	Krieg et al.	10-27-2005
	2005-0245477	A1	Krieg et al.	11-03-2005
	2005-0244379	A1	Krieg et al.	11-03-2005
	2005-0244380	A1	Krieg et al.	11-03-2005
	2005-0250726	A1	Krieg et al.	11-10-2005
	2005-0256073	A1	Lipford et al.	11-17-2005
	2005-0267057	A1	Krieg	12-01-2005
	2005-0267064	A1	Krieg et al.	12-01-2005

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
		EP	0 819 758	A2	Mixson	01-21-1998	
		WO	93/25673	A1	The Regents of the University of CA	12-23-1993	
		WO	94/04196	A1	Imperial Cancer Research Technology Limited	03-03-1994	
		WO	99/56755	A1	University of Iowa Research Foundation	11-11-1999	
		WO	00/06588	A1	University of Iowa Research Foundation	02-10-2000	
		WO	2004/026888	A2	Coley Pharmaceutical GmbH	04-01-2004	
		WO	2004/007743	A2	Coley Pharmaceutical GmbH	01-22-2004	
		WO	2004/094671	A2	Coley Pharmaceutical GmbH	11-04-2004	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
		BROIDE et al., Immunostimulatory DNA sequences inhibit IL-5, eosinophilic inflammation, and airway hyperresponsiveness in mice. J Immunol. 1998 Dec 15;161(12):7054-62.	
		GURSEL et al., Sterically stabilized cationic liposomes improve the uptake and immunostimulatory activity of CpG oligonucleotides. J Immunol. 2001 Sep 15;167(6):3324-8.	
		KLINKE et al., Modulation of airway inflammation by CpG oligodeoxynucleotides in a murine model of asthma. J Immunol. 1998 Mar 15;160(6):2555-9.	
		KRIEG et al., CpG DNA induces sustained IL-12 expression in vivo and resistance to Listeria monocytogenes challenge. J Immunol. 1998 Sep 1;161(5):2428-34.	
V		LITZINGER et al., Fate of cationic liposomes and their complex with oligonucleotide in vivo. Biochim Biophys Acta. 1996 Jun 11;1281(2):139-49.	

EXAMINER:

/Nina Archie/

DATE CONSIDERED:

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.
Include copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APPLICATION NO.: 10/690,495

ATTY. DOCKET NO.: C1039.70083US00

FILING DATE: October 21, 2003

CONFIRMATION NO.: 8657

APPLICANT: Krieg et al.

GROUP ART UNIT: 1645

EXAMINER: Patricia Ann Duffy

Sheet

5

of

5

/NA/		NORMAN et al., Liposome-mediated, nonviral gene transfer induces a systemic inflammatory response which can exacerbate pre-existing inflammation. Gene Ther. 2000;7:1425-30. Abstract Only.	
		RUDGINSKY et al., Antitumor activity of cationic lipid complexed with immunostimulatory DNA. Mol Ther. 2001 Oct;4(4):347-55. Abstract Only.	
		VERMA et al., Gene therapy—promises, problems, and prospects. Nature. 1997 Sep 18;389:239-42.	
		WHITMORE et al., Systemic administration of LPD prepared with CpG oligonucleotides inhibits the growth of established pulmonary metastases by stimulating innate and acquired antitumor immune responses. Canc Immun Immunother. 2001;50:503-14.	
↓		WHITMORE et al., LPD lipopolyplex initiates a potent cytokine response and inhibits tumor growth. Gene Ther. 1999;6:1867-75.	

A copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. __, filed __, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

NOTE – No copies of U.S. patents, published U.S. patent applications, or pending, unpublished patent applications stored in the USPTO's Image File Wrapper (IFW) system, are included. See 37 CFR §1.98 and 1287OG163. Copies of all other patent(s), publication(s), unpublished, pending U.S. patent applications, or other information listed are provided as required by 37 CFR §1.98 unless 1) such copies were provided in an IDS in an earlier application that complies with 37 CFR §1.98, and 2) the earlier application is relied upon for an earlier filing date under 35 U.S.C. §120.]

EXAMINER:

/Nina Archie/

DATE CONSIDERED:

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FEB 17 2005

PATENT & TRADEMARK OFFICE
FORM PTO/A and B (Modified)**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

APPLICATION NO.: 10/690,495

ATTY. DOCKET NO.: C1039.70083US00

FILING DATE: October 21, 2003

CONFIRMATION NO.: 8657

APPLICANT: Krieg et al.

GROUP ART UNIT: 1645

EXAMINER: Patricia Ann Duffy

Sheet

1

of

1

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
/NA/		US 6,693,086	B1	Dow et al.	02-17-2004
↓		US 2004/0247662	A1	Dow et al.	12-09-2004
↓		US 2004/0157791	A1	Dow et al.	08.12.2004
↓		US 2005/0013812	A1	Dow et al.	01.20.2005
↓		US 2003/0022854	A1	Dow et al.	01.30.03

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)

EXAMINER:

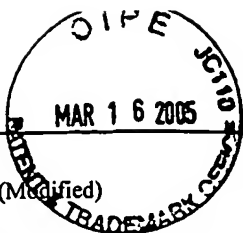
/Nina Archie/

DATE CONSIDERED:

03/10/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. ___, filed ___, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).



FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 10/690,495		ATTY. DOCKET NO.: C1039.70083US00	
				FILING DATE: October 21, 2003		CONFIRMATION NO.: 8657	
				APPLICANT: Krieg et al.			
				GROUP ART UNIT: 1645		EXAMINER: Not Yet Assigned	
Sheet	1	of	1				

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
/NA/		6,835,395	B1	Semple et al.	12/28/2004

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)	

EXAMINER:	/Nina Archie/	DATE CONSIDERED:	03/10/2007
-----------	---------------	------------------	------------

#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. __, filed __, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE - The Office hereby waives the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC 371 after June 30, 2003. See 37 CFR 1.491(b). For all patent applications filed on or before June 30, 2003, copies of cited U.S. patents and patent application publications are still required unless an eIDS is filed. Copies of all other patent(s), publication(s), or other information listed must still be provided, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]

INTERFERENCE INITIAL MEMORANDUM

To the Board of Patent Appeals and Interferences:

An interference is proposed involving the following 2 parties--

PARTY University of Iowa Research Foundation, United States of America, Coley Pharmaceutical Group, Inc.	APPLICATION NO. 10/690,495	FILING DATE October 21, 2003	PATENT NO., IF ANY	ISSUE DATE, IF ANY
If the involved case is a patent, have its maintenance fees been paid? Yes ___ No ___ Not Due yet _____				
Proposed priority benefit (list all intervening applications necessary for continuity):				
COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO., IF ANY	ISSUE DATE, IF ANY
USA	09/415,142	October 9, 1999		
USA	08/386,063	February 7, 1995	US 6,194,388 B1	February 27, 2001
USA	08/276,358	July 15, 1994		
The claim(s) of this party corresponding to this count: 52-64				
PATENTED OR PATENTABLE PENDING CLAIMS 52-64			UNPATENTABLE PENDING CLAIMS	
The claim(s) of this party NOT corresponding to this count: 65-77				
PATENTED OR PATENTABLE PENDING CLAIMS 65-77			UNPATENTABLE PENDING CLAIMS	
PARTY National Jewish Medical and Research Center	APPLICATION NO. 09/104,759	FILING DATE June 25, 1998	PATENT NO., IF ANY US 6,693,086 B1	ISSUE DATE, IF ANY February 17, 2004
If the involved case is a patent, have its maintenance fees been paid? Yes ___ No ___ Not Due Yet XX _____				
Proposed priority benefit (list all intervening applications necessary for continuity):				
COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO., IF ANY	ISSUE DATE, IF ANY
NONE				
The claim(s) of this party corresponding to this count: 1-9				
PATENTED OR PATENTABLE PENDING CLAIMS 1-9			UNPATENTABLE PENDING CLAIMS	
The claim(s) of this party NOT corresponding to this count: 10-18				
PATENTED OR PATENTABLE PENDING CLAIMS 10-18			UNPATENTABLE PENDING CLAIMS	
(Check off each step, if applicable) INSTRUCTIONS				
<input type="checkbox"/> 1. Obtain all files listed above <input type="checkbox"/> 2. Confirm that the proposed involved claims are still active and all corrections and entered amendments have been considered. The patents must not be expired for, among other things, failure to pay a maintenance fee (Check PALM screen 2970). <input type="checkbox"/> 3. If one of the involved files is a published application or a patent, check for compliance with 35 U.S.C. 135(b). <input type="checkbox"/> 4. Obtain a certified copy of any foreign benefit documents where necessary (37 CFR 1.55(a)). <input type="checkbox"/> 5. Discuss the proposed interference with an Interference Practice Specialist in your Technology Center.				
DATE	PRIMARY EXAMINER (signature)		ART UNIT	TELEPHONE NO.

2309.02

MANUAL OF PATENT EXAMINING PROCEDURE

DATE	INTERFERENCE PRACTICE SPECIALIST or TECHNOLOGY CENTER DIRECTOR (signature)	TELEPHONE NO.
------	---	---------------

Page 2 of 2

count 1: the composition of claim 1 of patent no. 6,693,086

or

the composition of claim 52 of application serial no. 10/690,495